



World Leader in Electrical Energy Solutions

Exide Technologies
Frisco Smelter
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Frisco, TX 75034
Tel (972) 335-2121

April 24, 2013

BY EMAIL W/ HAND DELIVERY TO FOLLOW

Mr. William J. Shafford, P.E.
Technical Specialist
Texas Commission on Environmental Quality
12100 Park 35 Circle, Building F (MC-123)
Austin, TX 78753

RE: ALS Environmental Letter Regarding TCLP Analyses and Data from Reanalyses Response Action Work Plan, Class 2 Non-Hazardous Waste Landfill
Exide Technologies, Inc., North Landfill – Frisco, Texas

Dear Mr. Shafford:

Following commencement of mobilization on March 25, 2013, in accordance with the Response Action Work Plan (RAWP), Exide conducted a pilot of the retreatment of excavated slag beginning March 28, 2013. Confirmation sampling included taking four samples from each of the 20 containers of retreated material. Exide sent the samples to an accredited lab, ALS Environmental (ALS), and split 10% of the samples which were sent to a second accredited lab, Oxidor Laboratories (Oxidor). TCEQ took splits from some of the samples to have independently analyzed at another lab. The retreated material is being held in containers until TCEQ's split samples are returned and there is concurrence regarding the characterization of the retreated material and the success of the retreatment to below Universal Treatment Standards (UTS), at which point full scale retreatment operations will begin.

The results of all of the laboratory analyses conducted by ALS and Oxidor are enclosed, with a summary presented in the attached table. The analytical data received by Exide, taking into account a second round of analysis by ALS of samples from the first 10 containers to correct for inconsistent lab procedures as described below, indicates that the excavated material was successfully retreated to below UTS.

As previously communicated, the first set of analytical data received from ALS indicated exceedances of UTS and hazardous waste standards for samples in 9 of the first 10 containers. Because these results were at odds with the results received on the split samples from Oxidor and with the treatability study results, Exide undertook an examination of the laboratory procedures that were used. First, Exide consulted with both labs. Two of the samples that were split between ALS and Oxidor were traded between the labs and re-analyzed, and the analytical testing methods and results were reviewed. In contrast to the initial ALS results, reanalysis of the traded subset by both labs indicated that material represented by those two samples were successfully retreated to below UTS, and led to the conclusion that inconsistent lab procedures, in particular more aggressive particle size

reduction by ALS than required by the analytical protocol, could have caused the initial divergent results.

In recognition of this possibility, Exide requested that ALS analyze the remaining portions of the samples from the first 10 containers, using appropriate particle size reduction. The results of the reanalysis by of ALS the samples from the first 10 containers indicate levels of lead and cadmium below UTS (and, for the most part, below detection limits), with one exception. ALS's reanalysis of Sample CP-6A indicated a result above regulatory limits. However, Exide does not believe this result is representative of the retreated material because the tested aliquot was too small and the result is inconsistent with two Oxidor results and one ALS result from analyzing appropriately sized aliquots of this same sample. Because this was a sample that originally split between ALS and Oxidor, following the multiple rounds of analysis, only 20 grams were available to ALS from the original samples sent to the labs. As described in the ALS letter, they typically use a 100 grams aliquot for this type of material to better represent the varying particles sizes. A substantially smaller aliquot is less likely to be representative of the material sampled. TCEQ also has a split of CP-6A that it is testing independently. If any uncertainty remains following receipt of TCEQ's analytical results, additional sampling of this container could be conducted for further analysis.

As described in the attached letter from ALS, dated April 23, 2013, the heterogeneity of the sample with regards to particle sizes, particle size reduction method and the effect of particle size on the pH of the TCLP extraction fluid after tumbling impacted the original ALS analysis, leading to results that do not accurately reflect the toxicity characteristics of the retreated material. The challenges of appropriately analyzing this type of material under the prescribed TCLP analysis were recognized during the rulemaking when the UTS were adopted and, unfortunately, still exist today.

Exide understands that TCEQ's lab analyses of the split samples from the pilot are still pending. Exide looks forward to receiving TCEQ's results and, if necessary, assisting with laboratory method reviews. When there is TCEQ concurrence regarding the success of the retreatment to below UTS, Exide will begin full scale retreatment operations as described in the RAWP.

Thank you. Please contact me if you have any questions.

Sincerely,

Exide Technologies



Vanessa Coleman

CC: Ms. Margaret Ligarde – TCEQ
Sam Barrett - TCEQ, Region 4
Mr. Rick Ehrhart - EPA
Christine Graessle, Exide Technologies, Inc.
Ms. Aileen Hooks – Baker Botts

Attachment 1

Exide FRC Landfill RAWP Pilot Test Sampling Analytical Results Summary

Sample Date	Sample ID	Initial ALS ¹				Oxidor Analysis				Follow-up ALS Analysis ²			
		Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble	Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble	Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble
Thursday, March 28, 2013	CP-1A	<0.02	<0.05	13031047-01	7								
Thursday, March 28, 2013	CP-1B	0.0106	1.89	13031047-02	7					<0.02	<0.05	1304350-01	6.13
Thursday, March 28, 2013	CP-1C	<0.02	1.21	13031047-03	7					<0.02	<0.05	1304350-02	9.7
Thursday, March 28, 2013	CP-1D	<0.02	0.924	13031047-04	7					<0.02	<0.05	1304350-03	9.68
Thursday, March 28, 2013	CP-2A	<0.02	1.35	13031047-05	7					<0.02	<0.05	1304350-04	9.77
Thursday, March 28, 2013	CP-2B	0.0106	1.86	13031047-06	7					<0.02	<0.05	1304350-05	9.91
Friday, March 29, 2013	CP-2C	0.295	9.97	13031112-02	7					<0.02	<0.05	1304350-07	9.9
Friday, March 29, 2013	CP-2D	0.0154	2.37	13031112-01	7					<0.02	<0.05	1304350-06	9.94
Friday, March 29, 2013	CP-3A	0.0249	4.46	13031112-03	7					<0.02	<0.05	1304350-08	9.86
Friday, March 29, 2013	CP-3B	0.0323	4.53	13031112-04	7					<0.02	<0.05	1304350-09	9.9
Friday, March 29, 2013	CP-3C	0.0195	3.67	13031112-05	7					<0.02	<0.05	1304350-10	9.83
Friday, March 29, 2013	CP-3D	0.0151	3.03	13031112-06	7					<0.02	<0.05	1304350-11	9.79
Friday, March 29, 2013	CP-4A	0.0243	3.48	13031112-07	7	<0.010	<0.05	13040010-001	9.5	<0.02	<0.05	1304350-12	9.98
Friday, March 29, 2013	CP-4B	0.0133	1.98	13031112-08	7					<0.02	<0.05	1304350-13	9.72
Friday, March 29, 2013	CP-4C	0.0903	3.21	13031112-09	7					<0.02	<0.05	1304350-14	9.7
Friday, March 29, 2013	CP-4D	0.0145	2.27	13031112-10	7					<0.02	<0.05	1304350-15	9.66
Friday, March 29, 2013	CP-5A	0.0649	2.76	13031112-11	7					<0.02	<0.05	1304350-16	9.57
Friday, March 29, 2013	CP-5B	0.052	2.83	13031112-12	7					<0.02	<0.05	1304350-17	9.89
Friday, March 29, 2013	CP-5C	0.722	11.8	13031112-13	7					<0.02	<0.05	1304350-18	9.85
Friday, March 29, 2013	CP-5D	0.0362	3.13	13031112-14	7					<0.02	<0.05	1304350-19	9.81
Friday, March 29, 2013	CP-6A	2.19	37.6	13031112-15	6	<0.010	<0.05	13040010-002	9.5	1.38	44.2	1304350-20 ³	5.47
Original ALS Sample analyzed by Oxidor	CP-6A					<0.010	<0.050	Original ALS Sample	9.59				
Original Oxidor Sample analyzed by ALS	CP-6A	<0.020	<0.050	Original Oxidor Sample	6.43								
Friday, March 29, 2013	CP-6B	0.0427	6.61	13031112-16	7					<0.02	0.0239	1304350-21	9.81
Saturday, March 30, 2013	CP-6C	0.33	2.62	1304011-01	7					<0.02	<0.05	1304350-22	9.69
Saturday, March 30, 2013	CP-6D	<0.0200	<0.0500	1304011-02	7								
Saturday, March 30, 2013	CP-7A	0.11	0.508	1304011-03	7					<0.02	<0.05	1304350-23	9.63
Saturday, March 30, 2013	CP-7B	<0.0200	<0.0500	1304011-04	7								
Saturday, March 30, 2013	CP-7C	<0.0200	<0.0500	1304011-05	7								
Saturday, March 30, 2013	CP-7D	<0.0200	<0.0500	1304011-06	7								
Saturday, March 30, 2013	CP-8A	0.0107	<0.0500	1304011-07	7								
Saturday, March 30, 2013	CP-8B	<0.0200	<0.0500	1304011-08	7								
Saturday, March 30, 2013	CP-8C	<0.0200	<0.0500	1304011-09	7								
Saturday, March 30, 2013	CP-8D	1.38	15.9	1304011-10	7					<0.02	<0.05	1304350-24	9.54
Saturday, March 30, 2013	CP-9A	2.96	20	1304011-11	7					<0.02	<0.05	1304350-25	9.62
Saturday, March 30, 2013	CP-9B	0.717	6.56	1304011-12	7					<0.02	<0.05	1304350-26	9.64
Saturday, March 30, 2013	CP-9C	1.65	21.4	1304011-13	7					<0.02	<0.05	1304350-27	9.58
Saturday, March 30, 2013	CP-9D	0.64	4.81	1304011-14	7					<0.02	<0.05	1304350-28	9.68
Saturday, March 30, 2013	CP-10A	0.629	5.53	1304011-15	7					<0.02	<0.05	1304350-29	9.77

Notes:

¹ On initial analysis, ALS departed from recommended protocol, samples were crushed to fine particle size prior to analysis. When ALS ran sample material from Oxidor, followed recommended protocol on particle sizing

² conforming to recommended protocol

³ ALS standard aliquot size for TCLP analysis is 100 grams. Lab IDs 1304350-20 (20 grams) and 1304350-30 (15 grams) had limited sample material.

Exide FRC Landfill RAWP Pilot Test Sampling Analytical Results Summary

Sample Date	Sample ID	Initial ALS ¹				Oxidor Analysis				Follow-up ALS Analysis ²			
		Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble	Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble	Cd (mg/L)	Pb (mg/L)	Lab ID	pH after tumble
Saturday, March 30, 2013	CP-10B	0.986	8.71	1304011-16	7	<0.010	<0.05	13040010-005	9.5	<0.02	<0.05	1304350-30 ³	9.86
Original ALS Sample analyzed by Oxidor	CP-10B					<0.010	<0.050	Original ALS Sample	10.57				
Original Oxidor Sample analyzed by ALS	CP-10B	<0.020	<0.050	Original Oxidor Sample	9.65								
Saturday, March 30, 2013	CP-10C	0.237	1.17	1304011-17	7					<0.02	<0.05	1304350-31	9.71
Saturday, March 30, 2013	CP-10D	<0.0200	<0.0500	1304011-18	7								
Saturday, March 30, 2013	CP-11A	0.0221	<0.0500	1304011-19	7								
Saturday, March 30, 2013	CP-11B	0.0617	0.21	1304011-20	7								
Saturday, March 30, 2013	CP-11C	<0.0200	<0.0500	1304011-21	7								
Saturday, March 30, 2013	CP-11D	<0.0200	<0.0500	1304011-22	7								
Saturday, March 30, 2013	CP-12A	<0.0200	<0.0500	1304011-23	7								
Saturday, March 30, 2013	CP-12B	<0.0200	<0.0500	1304011-24	7	<0.010	<0.05	13040010-006	9.5				
Saturday, March 30, 2013	CP-12C	<0.0200	<0.0500	1304011-25	7								
Saturday, March 30, 2013	CP-12D	<0.0200	<0.0500	1304011-26	7								
Monday, April 01, 2013	CP-13A	<0.200	<0.0500	1304043-01	8.24								
Monday, April 01, 2013	CP-13B	<0.200	<0.0500	1304043-02	10.37	<0.010	<0.050	13040036-003					
Monday, April 01, 2013	CP-13C	On hold	On hold	1304043-03									
Monday, April 01, 2013	CP-13D	On hold	On hold	1304043-04									
Monday, April 01, 2013	CP-14A	On hold	On hold	1304043-05									
Monday, April 01, 2013	CP-14B	On hold	On hold	1304043-06									
Monday, April 01, 2013	CP-14C	<0.200	<0.0500	1304043-07	9.45								
Monday, April 01, 2013	CP-14D	On hold	On hold	1304043-08									
Monday, April 01, 2013	CP-15A	On hold	On hold	1304043-09									
Monday, April 01, 2013	CP-15B	On hold	On hold	1304043-10									
Monday, April 01, 2013	CP-15C	<0.200	<0.0500	1304043-11	10.43								
Monday, April 01, 2013	CP-15D	On hold	On hold	1304043-12									
Monday, April 01, 2013	CP-16A	On hold	On hold	1304043-13									
Monday, April 01, 2013	CP-16B	On hold	On hold	1304043-14									
Monday, April 01, 2013	CP-16C	On hold	On hold	1304043-15									
Monday, April 01, 2013	CP-16D	<0.200	<0.0500	1304043-16	9.52	<0.010	0.71	13040036-001					
Monday, April 01, 2013	CP-17A	On hold	On hold	1304043-17									
Monday, April 01, 2013	CP-17B	<0.200	<0.0500	1304043-18	9.56								
Monday, April 01, 2013	CP-17C	On hold	On hold	1304043-19									
Monday, April 01, 2013	CP-17D	On hold	On hold	1304043-20									
Monday, April 01, 2013	CP-18A	<0.200	<0.0500	1304043-21	9.37								
Monday, April 01, 2013	CP-18B	On hold	On hold	1304043-22									
Monday, April 01, 2013	CP-18C	On hold	On hold	1304043-23									
Monday, April 01, 2013	CP-19C	On hold	On hold	1304043-24									
Monday, April 01, 2013	CP-19A	<0.200	<0.0500	1304043-25	9.73								
Monday, April 01, 2013	CP-19B	On hold	On hold	1304043-26									
Monday, April 01, 2013	CP-20A	<0.200	<0.0500	1304043-27	9.38	<0.010	<0.050	13040035-002					
Monday, April 01, 2013	CP-20B	On hold	On hold	1304043-28									
Monday, April 01, 2013	CP-20C	<0.200	<0.0500	1304043-29	10.71								

Notes:

¹ On initial analysis, ALS departed from recommended protocol, samples were crushed to fine particle size prior to analysis. When ALS ran sample material from Oxidor, followed recommended protocol on particle sizing

² conforming to recommended protocol

³ ALS standard aliquot size for TCLP analysis is 100 grams. Lab IDs 1304350-20 (20 grams) and 1304350-30 (15 grams) had limited sample material.



01-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121

Fax:

Re: Exide Dano 112.071

Work Order: **13031047**

Dear Vanessa,

ALS Environmental received 15 samples on 29-Mar-2013 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Bernadette Fini".

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager



Certificate No: TX: T104704231-12-10

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Exide Technologies
Project: Exide Dano 112.071
Work Order: **13031047**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13031047-01	CP-1A	Solid		3/28/2013 14:57	3/29/2013 09:30	<input type="checkbox"/>
13031047-02	CP-1B	Solid		3/28/2013 15:00	3/29/2013 09:30	<input type="checkbox"/>
13031047-03	CP-1C	Solid		3/28/2013 15:38	3/29/2013 09:30	<input type="checkbox"/>
13031047-04	CP-1D	Solid		3/28/2013 16:05	3/29/2013 09:30	<input type="checkbox"/>
13031047-05	CP-2A	Solid		3/28/2013 16:32	3/29/2013 09:30	<input type="checkbox"/>
13031047-06	CP-2B	Solid		3/28/2013 16:52	3/29/2013 09:30	<input type="checkbox"/>
13031047-07	Dup-2	Solid		3/28/2013	3/29/2013 09:30	<input type="checkbox"/>
13031047-08	CS-A1-1'	Solid		3/28/2013 16:14	3/29/2013 09:30	<input type="checkbox"/>
13031047-09	CS-B1-1'	Solid		3/28/2013 16:21	3/29/2013 09:30	<input type="checkbox"/>
13031047-10	CS-B2-1'	Solid		3/28/2013 16:43	3/29/2013 09:30	<input type="checkbox"/>
13031047-11	CS-A2-1'	Solid		3/28/2013 16:35	3/29/2013 09:30	<input type="checkbox"/>
13031047-12	CS-A3-1'	Solid		3/28/2013 16:59	3/29/2013 09:30	<input type="checkbox"/>
13031047-13	CS-B3-1'	Solid		3/28/2013 17:05	3/29/2013 09:30	<input type="checkbox"/>
13031047-14	SW-A1-0.5'	Solid		3/28/2013 17:15	3/29/2013 09:30	<input type="checkbox"/>
13031047-15	Dup-3	Solid		3/28/2013	3/29/2013 09:30	<input type="checkbox"/>

Client: Exide Technologies
Project: Exide Dano 112.071
Work Order: 13031047

Case Narrative

No Exceptions

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-1A
Collection Date: 3/28/2013 02:57 PM

Work Order: 13031047
Lab ID: 13031047-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/1/2013 09:10
Lead	U		0.00700	0.0500	mg/L	10	4/1/2013 09:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-1B
Collection Date: 3/28/2013 03:00 PM

Work Order: 13031047
Lab ID: 13031047-02
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0106	J	0.00800	0.0200	mg/L	10	4/1/2013 09:13
Lead	1.89		0.00700	0.0500	mg/L	10	4/1/2013 09:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-1C
Collection Date: 3/28/2013 03:38 PM

Work Order: 13031047
Lab ID: 13031047-03
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium		U	0.00800	0.0200	mg/L	10	4/1/2013 09:15
Lead		1.21	0.00700	0.0500	mg/L	10	4/1/2013 09:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-1D
Collection Date: 3/28/2013 04:05 PM

Work Order: 13031047
Lab ID: 13031047-04
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium		U	0.00800	0.0200	mg/L	10	4/1/2013 09:18
Lead		0.924	0.00700	0.0500	mg/L	10	4/1/2013 09:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-2A
Collection Date: 3/28/2013 04:32 PM

Work Order: 13031047
Lab ID: 13031047-05
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/1/2013 09:20
Lead	1.35		0.00700	0.0500	mg/L	10	4/1/2013 09:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CP-2B
Collection Date: 3/28/2013 04:52 PM

Work Order: 13031047
Lab ID: 13031047-06
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0106	J	0.00800	0.0200	mg/L	10	4/1/2013 09:23
Lead	1.86		0.00700	0.0500	mg/L	10	4/1/2013 09:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: Dup-2
Collection Date: 3/28/2013

Work Order: 13031047
Lab ID: 13031047-07
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.00810	J	0.00800	0.0200	mg/L	10	4/1/2013 09:25
Lead	1.60		0.00700	0.0500	mg/L	10	4/1/2013 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-A1-1'
Collection Date: 3/28/2013 04:14 PM

Work Order: 13031047
Lab ID: 13031047-08
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.177		0.00800	0.0200	mg/L	10	4/1/2013 09:27
Lead	8.36		0.00700	0.0500	mg/L	10	4/1/2013 09:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-B1-1'
Collection Date: 3/28/2013 04:21 PM

Work Order: 13031047
Lab ID: 13031047-09
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0405		0.00800	0.0200	mg/L	10	4/1/2013 09:30
Lead	7.51		0.00700	0.0500	mg/L	10	4/1/2013 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-B2-1'
Collection Date: 3/28/2013 04:43 PM

Work Order: 13031047
Lab ID: 13031047-10
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0419		0.00800	0.0200	mg/L	10	4/1/2013 09:32
Lead	5.60		0.00700	0.0500	mg/L	10	4/1/2013 09:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-A2-1'
Collection Date: 3/28/2013 04:35 PM

Work Order: 13031047
Lab ID: 13031047-11
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.174		0.00800	0.0200	mg/L	10	4/1/2013 09:39
Lead	18.5		0.0700	0.500	mg/L	100	4/1/2013 10:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-A3-1'
Collection Date: 3/28/2013 04:59 PM

Work Order: 13031047
Lab ID: 13031047-12
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0186	J	0.00800	0.0200	mg/L	10	4/1/2013 09:54
Lead	0.701		0.00700	0.0500	mg/L	10	4/1/2013 09:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: CS-B3-1'
Collection Date: 3/28/2013 05:05 PM

Work Order: 13031047
Lab ID: 13031047-13
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0456		0.00800	0.0200	mg/L	10	4/1/2013 09:56
Lead	10.6		0.00700	0.0500	mg/L	10	4/1/2013 09:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: SW-A1-0.5'
Collection Date: 3/28/2013 05:15 PM

Work Order: 13031047
Lab ID: 13031047-14
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.803		0.00800	0.0200	mg/L	10	4/1/2013 09:59
Lead	30.4		0.140	1.00	mg/L	200	4/1/2013 10:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 01-Apr-13

Client: Exide Technologies
Project: Exide Dano 112.071
Sample ID: Dup-3
Collection Date: 3/28/2013

Work Order: 13031047
Lab ID: 13031047-15
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/30/13	Analyst: SKS	
Cadmium	0.0683		0.00800	0.0200	mg/L	10	4/1/2013 10:01
Lead	5.35		0.00700	0.0500	mg/L	10	4/1/2013 10:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Apr-13

Client: Exide Technologies

Work Order: 13031047

Project: Exide Dano 112.071

QC BATCH REPORT

Batch ID: 68844		Instrument ID ICPMS05		Method: SW1311/6020						
MBLK		Sample ID: MBLKT1-032913-68844				Units: mg/L		Analysis Date: 4/1/2013 08:59 AM		
Client ID:		Run ID: ICPMS05_130401A			SeqNo: 3159174		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0	0	0		
Lead	U	0.050	0	0	0	0-0	0	0		
MBLK		Sample ID: MBLKW1-033013-68844				Units: mg/L		Analysis Date: 4/1/2013 09:01 AM		
Client ID:		Run ID: ICPMS05_130401A			SeqNo: 3159175		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								
LCS		Sample ID: MLCSW1-033013-68844				Units: mg/L		Analysis Date: 4/1/2013 09:03 AM		
Client ID:		Run ID: ICPMS05_130401A			SeqNo: 3159176		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4429	0.020	0.5	0	88.6	80-120	0	0		
Lead	0.4602	0.050	0.5	0	92	80-120	0	0		
MS		Sample ID: 13031047-11AMS				Units: mg/L		Analysis Date: 4/1/2013 09:44 AM		
Client ID: CS-A2-1'		Run ID: ICPMS05_130401A			SeqNo: 3159193		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.6322	0.020	0.5	0.1738	91.7	75-125	0	0		
Lead	19.18	0.050	0.5	18.86	64.3	75-125	0	0		SEO
MSD		Sample ID: 13031047-11AMSD				Units: mg/L		Analysis Date: 4/1/2013 09:47 AM		
Client ID: CS-A2-1'		Run ID: ICPMS05_130401A			SeqNo: 3159194		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.6139	0.020	0.5	0.1738	88	75-125	0.6322	2.93	20	
Lead	19.17	0.050	0.5	18.86	62.2	75-125	19.18	0.0554	20	SEO
DUP		Sample ID: 13031047-11ADUP				Units: mg/L		Analysis Date: 4/1/2013 09:42 AM		
Client ID: CS-A2-1'		Run ID: ICPMS05_130401A			SeqNo: 3159192		Prep Date: 3/30/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.1713	0.020	0	0	0	0-0	0.1738	1.47	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 2

Client: Exide Technologies
Work Order: 13031047
Project: Exide Dano 112.071

QC BATCH REPORT

Batch ID: **68844** Instrument ID **ICPMS05** Method: **SW1311/6020**

DUP	Sample ID: 13031047-11ADUP			Units: mg/L		Analysis Date: 4/1/2013 10:11 AM			
Client ID: CS-A2-1'	Run ID: ICPMS05_130401A			SeqNo: 3159204		Prep Date: 3/30/2013		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit
Lead	17.51	0.50	0	0	0	0-0	18.49	5.43	25

The following samples were analyzed in this batch:

13031047-01A	13031047-02A	13031047-03A
13031047-04A	13031047-05A	13031047-06A
13031047-07A	13031047-08A	13031047-09A
13031047-10A	13031047-11A	13031047-12A
13031047-13A	13031047-14A	13031047-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 2 of 2

Client: Exide Technologies
Project: Exide Dano 112.071
WorkOrder: 13031047

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 29-Mar-13 09:30

Work Order: 13031047

Received by: JBA

Checklist completed by Paresh M. Giga
eSignature

29-Mar-13

Reviewed by: Bernadette A. Fine

29-Mar-13

eSignature

Date

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Temperature(s)/Thermometer(s):

21.6c c/U IR1

Cooler(s)/Kit(s):

5140

Date/Time sample(s) sent to storage:

3/29/13 11:05

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

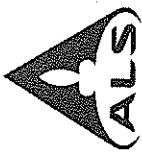
Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Chain of Custody Form

13031047

eston, WV
3168

Cincinnati, OH Fort Collins, CO
+1 513 733 5336 +1 970 490 1511

Everett, WA Holland, MI
+1 425 356 2600 +1 616 399 6070

Page 1 of 1
COC ID: 7892

Environmental

EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide Dano 112-071



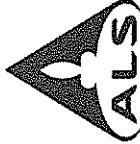
ALS Project Manager:

Customer Information		Project Information															
Purchase Order		Project Name	Exide Dano														
Work Order	<u>112-071</u>	Project Number	<u>112-071</u>														
Company Name	Exide Technologies	Bill To Company	Exide Technologies														
Send Report To	Vanessa Coleman	Invoice Attn	Vanessa Coleman														
Address	7471 South Fifth Street	Address	7471 South Fifth Street														
City/State/Zip	Frisco, TX 75034	City/State/Zip	Frisco, TX 75034														
Phone	(972) 335-2121	Phone	(972) 335-2121														
Fax		Fax															
e-Mail Address	<u>schultz@harm.com</u>	e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CP-1A	3/28/13	1457	SS	none	1	X										
2	CP-1B	3/28/13	1500	SS													
3	CP-1C	3/28/13	1538	SS													
4	CP-1D	3/28/13	1605	SS													
5	CP-2A	3/28/13	1632	SS													
6	CP-2B	3/28/13	1652	SS													
7	CP-Dup-2	3/26/13	—	SS													
8																	
9																	
10																	
Sampler(s) Please Print & Sign		<u>BRENT VOLLMER</u>		Shipment Method		Required Turnaround Time: (Check Box)		Other		Results Due Date:							
Relinquished by:		<u>Brent Vollmer</u>		Received by (Laboratory):		<input type="checkbox"/> Std 10 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 24 Hour		<input checked="" type="checkbox"/> Level II Std QC		<input type="checkbox"/> TRRP Checklist			
Logged by (Laboratory):		<u>Brent Vollmer</u>		Received by (Laboratory):		<input type="checkbox"/> Std 10 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 24 Hour		<input type="checkbox"/> Level III Std QC/Raw Data		<input type="checkbox"/> TRRP Level IV			
Preservative Key:		1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaHSO ₄ 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other		Time: <u>3/28/13 9:00</u>		Time: <u>3/28/13 9:00</u>		Time: <u>3/28/13 9:00</u>		Time: <u>3/28/13 9:00</u>		Cooler ID: <u>3213</u>		QC Package: (Check One Box Below)			
														<input checked="" type="checkbox"/> Level II Std QC			
														<input type="checkbox"/> Level III Std QC/Raw Data			
														<input type="checkbox"/> Level IV Std QC/Raw Data			
														<input type="checkbox"/> Other / EOD			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Note: SS = solid



Chain of Custody Form

Cincinnati, OH Fort Collins, CO
+1 513 733 5336 +1 970 490 1511

Everett, WA Holland, MI
+1 425 356 2600 +1 616 399 6070

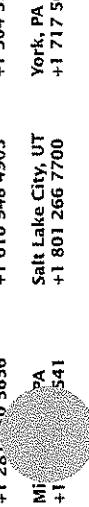
Environmental

Page 1 of 1
COC ID: 78911

ALS Project Manager: ALS Work Order# 13531847

Customer Information		Project Information						Parameter/Method Request for Analysis									
Purchase Order		Project Name	<u>Exide Demo</u>	<u>Exide</u>	<u>Demo</u>	A	TCLP Metals (SW-846) Pb & Cd										
Work Order		Project Number	<u>112.071</u>			B											
Company Name	Exide Technologies	Bill To Company	Exide Technologies			C											
Send Report To	Vanessa Coleman	Invoice Attn	Vanessa Coleman			D											
Address	7471 South Fifth Street	Address	7471 South Fifth Street			E											
City/State/Zip	Frisco, TX 75034	City/State/Zip	Frisco, TX 75034			F											
Phone	(972) 335-2121	Phone	(972) 335-2121			G											
Fax		Fax				H											
e-Mail Address	<u>fclark@whi-m.com</u>	e-Mail Address				I											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
14	CS-A1-1'	3/28/13	16:14	55	none	1	X										
25	CS-B1-1'	3/28/13	16:21														
3	CS-B2-1'	3/28/13	16: 43														
4	CS-A2-1'	3/28/13	16:35														
5	Def CS-A3-1'	3/28/13	16:59														
6	CS-B3-1'	3/28/13	17:05														
7	SN-Al-0.5'	3/28/13	17:15														
8	Drip - 3	3/28/13															
9																	
10																	
Sampler(s) Please Print & Sign <u>BRENT VOLUME</u>		Shipment Method		Required Turnaround Time: (Check Box)		Other		5 WK Days		2 WK Days		24 Hour		Results Due Date:			
Relinquished by: <u>Brent Volume</u>	Date: <u>3/28/13</u>	Time: <u>19:00</u>	Received by: <u>Brent Volume</u>	Time: <u>3/29/13</u>	Replaced by (Laboratory): <u>3/29/13</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)									
Relinquished by:	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> Level IV SW/846/CLP	<input checked="" type="checkbox"/> TRRP Checklist	<input type="checkbox"/> Level IV SW/846/CLP	<input type="checkbox"/> Other / EDD						
Logged by (Laboratory):	Date:	Time:															
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-NaISO ₄	8-4°C	9-5035								

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Spring City, PA
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+1 801 266 7700
York, PA
+1 717 505 5280

South Charleston, WV
+1 304 336 3168

MUR 1

FedEx
Tracking
Number

8013 8013 0617

From

Date 3/23/13

Sender's Name BRENT KELLOGG

Phone (972) 516-0300

Company W&M Environmental

Address 906 E 18th St.

Dept/Floor/Suite/Room

City PLANO

State TX

ZIP 75074

2 Your Internal Billing Reference**3 To**

Recipient's Name CLIENT SERVICES

Phone 281 530-5656

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

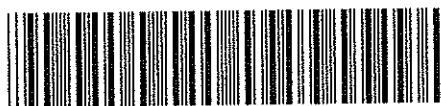
Address

Use this line for the HOLD location address or for continuation of your shipping address.

City HOUSTON

State TX

ZIP 77099-4636



8013 8013 0617

- HOLD Weekday
FedEx location address
REQUIRED. NOT available for FedEx First Overnight
- HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Form ID No. 0215

0215

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.

For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day**FedEx First Overnight**

Earliest next business morning delivery to select locations. FedEx shipping will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight

Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight

Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days**FedEx 2Day A.M.**

Second business morning.* Saturday Delivery NOT available.

FedEx 2Day

Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver

Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

- FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options**SATURDAY Delivery**

NOT available for FedEx Standard Overnight, FedEx 2Day AM., or FedEx Express Saver.

No Signature Required

Package may be left without obtaining a signature for delivery. Fee applies.

Direct Signature

Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature

(If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.)

Does this shipment contain dangerous goods?

One box must be checked.

- Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
- Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or shipped in FedEx Express Drop Box.

 Dry Ice Dry Ice, UN 1645 _____ kg Cargo Aircraft Only**7 Payment** *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be listed. Recipient Third Party Credit Card Cash/Check

Total Packages 3

Total Weight 31.95 lbs

Credit Card Auth.

Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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02-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121

Fax:

Re: Exide Landfill 112.071

Work Order: **13031112**

Dear Vanessa,

ALS Environmental received 18 samples on 30-Mar-2013 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 2J.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Bernadette Fini".

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager



Certificate No: TX: T104704231-12-10

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#JUR X S#VD /#FR US1#Sdu#h i#ch#DOV#Juxs#Dq#DOV#Dp l#hg#Fr p s#dq |

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 13031112

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13031112-01	CP-2D	Soil		3/29/2013 07:40	3/30/2013 09:15	<input type="checkbox"/>
13031112-02	CP-2C	Soil		3/29/2013 07:50	3/30/2013 09:15	<input type="checkbox"/>
13031112-03	CP-3A	Soil		3/29/2013 07:57	3/30/2013 09:15	<input type="checkbox"/>
13031112-04	CP-3B	Soil		3/29/2013 08:18	3/30/2013 09:15	<input type="checkbox"/>
13031112-05	CP-3C	Soil		3/29/2013 08:35	3/30/2013 09:15	<input type="checkbox"/>
13031112-06	CP-3D	Soil		3/29/2013 08:39	3/30/2013 09:15	<input type="checkbox"/>
13031112-07	CP-4A	Soil		3/29/2013 08:59	3/30/2013 09:15	<input type="checkbox"/>
13031112-08	CP-4B	Soil		3/29/2013 09:18	3/30/2013 09:15	<input type="checkbox"/>
13031112-09	CP-4C	Soil		3/29/2013 09:43	3/30/2013 09:15	<input type="checkbox"/>
13031112-10	CP-4D	Soil		3/29/2013 09:45	3/30/2013 09:15	<input type="checkbox"/>
13031112-11	CP-5A	Soil		3/29/2013 10:00	3/30/2013 09:15	<input type="checkbox"/>
13031112-12	CP-5B	Soil		3/29/2013 10:20	3/30/2013 09:15	<input type="checkbox"/>
13031112-13	CP-5C	Soil		3/29/2013 10:34	3/30/2013 09:15	<input type="checkbox"/>
13031112-14	CP-5D	Soil		3/29/2013 10:36	3/30/2013 09:15	<input type="checkbox"/>
13031112-15	CP-6A	Soil		3/29/2013 11:00	3/30/2013 09:15	<input type="checkbox"/>
13031112-16	CP-6B	Soil		3/29/2013 11:15	3/30/2013 09:15	<input type="checkbox"/>
13031112-17	Dup-4	Soil		3/29/2013	3/30/2013 09:15	<input type="checkbox"/>
13031112-18	Dup-5	Soil		3/29/2013	3/30/2013 09:15	<input type="checkbox"/>

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 13031112

Case Narrative

Batch 68871, TCLP Metals Method 1311/6020, Sample ID "CP-4C" (13031112-09): MS/MSD recoveries were above the control limits for Lead, due to high concentration to the background sample. Results are flagged with an O. The associated LCS recoveries and MS/MSD RPD were within the control limits.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2D
Collection Date: 3/29/2013 07:40 AM

Work Order: 13031112
Lab ID: 13031112-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0154	J	0.00800	0.0200	mg/L	10	4/1/2013 14:12
Lead	2.37		0.00700	0.0500	mg/L	10	4/1/2013 14:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2C
Collection Date: 3/29/2013 07:50 AM

Work Order: 13031112
Lab ID: 13031112-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.295		0.00800	0.0200	mg/L	10	4/1/2013 14:14
Lead	9.97		0.00700	0.0500	mg/L	10	4/1/2013 14:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3A
Collection Date: 3/29/2013 07:57 AM

Work Order: 13031112
Lab ID: 13031112-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0249		0.00800	0.0200	mg/L	10	4/1/2013 14:17
Lead	4.46		0.00700	0.0500	mg/L	10	4/1/2013 14:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3B
Collection Date: 3/29/2013 08:18 AM

Work Order: 13031112
Lab ID: 13031112-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0323		0.00800	0.0200	mg/L	10	4/1/2013 14:19
Lead	4.53		0.00700	0.0500	mg/L	10	4/1/2013 14:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3C
Collection Date: 3/29/2013 08:35 AM

Work Order: 13031112
Lab ID: 13031112-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0195	J	0.00800	0.0200	mg/L	10	4/1/2013 14:21
Lead	3.67		0.00700	0.0500	mg/L	10	4/1/2013 14:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3D
Collection Date: 3/29/2013 08:39 AM

Work Order: 13031112
Lab ID: 13031112-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0151	J	0.00800	0.0200	mg/L	10	4/1/2013 14:24
Lead	3.03		0.00700	0.0500	mg/L	10	4/1/2013 14:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4A
Collection Date: 3/29/2013 08:59 AM

Work Order: 13031112
Lab ID: 13031112-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0243		0.00800	0.0200	mg/L	10	4/1/2013 14:31
Lead	3.48		0.00700	0.0500	mg/L	10	4/1/2013 14:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4B
Collection Date: 3/29/2013 09:18 AM

Work Order: 13031112
Lab ID: 13031112-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0133	J	0.00800	0.0200	mg/L	10	4/1/2013 14:33
Lead	1.98		0.00700	0.0500	mg/L	10	4/1/2013 14:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4C
Collection Date: 3/29/2013 09:43 AM

Work Order: 13031112
Lab ID: 13031112-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0903		0.00800	0.0200	mg/L	10	4/1/2013 14:36
Lead	3.21		0.00700	0.0500	mg/L	10	4/1/2013 14:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4D
Collection Date: 3/29/2013 09:45 AM

Work Order: 13031112
Lab ID: 13031112-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0145	J	0.00800	0.0200	mg/L	10	4/1/2013 14:50
Lead	2.27		0.00700	0.0500	mg/L	10	4/1/2013 14:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5A
Collection Date: 3/29/2013 10:00 AM

Work Order: 13031112
Lab ID: 13031112-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0649		0.00800	0.0200	mg/L	10	4/1/2013 14:52
Lead	2.76		0.00700	0.0500	mg/L	10	4/1/2013 14:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5B
Collection Date: 3/29/2013 10:20 AM

Work Order: 13031112
Lab ID: 13031112-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0520		0.00800	0.0200	mg/L	10	4/1/2013 14:59
Lead	2.83		0.00700	0.0500	mg/L	10	4/1/2013 14:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5C
Collection Date: 3/29/2013 10:34 AM

Work Order: 13031112
Lab ID: 13031112-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.722		0.00800	0.0200	mg/L	10	4/1/2013 15:02
Lead	11.8		0.00700	0.0500	mg/L	10	4/1/2013 15:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5D
Collection Date: 3/29/2013 10:36 AM

Work Order: 13031112
Lab ID: 13031112-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0362		0.00800	0.0200	mg/L	10	4/1/2013 15:04
Lead	3.13		0.00700	0.0500	mg/L	10	4/1/2013 15:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6A
Collection Date: 3/29/2013 11:00 AM

Work Order: 13031112
Lab ID: 13031112-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	2.19		0.00800	0.0200	mg/L	10	4/1/2013 15:07
Lead	37.6		0.0700	0.500	mg/L	100	4/2/2013 12:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6B
Collection Date: 3/29/2013 11:15 AM

Work Order: 13031112
Lab ID: 13031112-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0427		0.00800	0.0200	mg/L	10	4/1/2013 15:09
Lead	6.61		0.00700	0.0500	mg/L	10	4/1/2013 15:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-4
Collection Date: 3/29/2013

Work Order: 13031112
Lab ID: 13031112-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.0188	J	0.00800	0.0200	mg/L	10	4/1/2013 15:12
Lead	2.68		0.00700	0.0500	mg/L	10	4/1/2013 15:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 02-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-5
Collection Date: 3/29/2013

Work Order: 13031112
Lab ID: 13031112-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 3/31/13	Analyst: SKS	
Cadmium	0.115		0.00800	0.0200	mg/L	10	4/1/2013 15:14
Lead	4.61		0.00700	0.0500	mg/L	10	4/1/2013 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 02-Apr-13

Client: Exide Technologies

Work Order: 13031112

Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: 68871		Instrument ID ICPMS05		Method: SW1311/6020							
MBLK	Sample ID: MBLKW1-040113-68871					Units: mg/L		Analysis Date: 4/1/2013 02:07 PM			
Client ID:		Run ID: ICPMS05_130401A		SeqNo: 3159751		Prep Date: 4/1/2013		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U		0.020							
Lead		U		0.050							
LCS	Sample ID: MLCSW1-040113-68871					Units: mg/L		Analysis Date: 4/1/2013 02:09 PM			
Client ID:		Run ID: ICPMS05_130401A		SeqNo: 3159752		Prep Date: 4/1/2013		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4967	0.020	0.5	0	99.3	80-120		0		
Lead		0.5092	0.050	0.5	0	102	80-120		0		
MS	Sample ID: 13031112-09AMS					Units: mg/L		Analysis Date: 4/1/2013 02:40 PM			
Client ID: CP-4C		Run ID: ICPMS05_130401A		SeqNo: 3159765		Prep Date: 4/1/2013		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.5653	0.020	0.5	0.09033	95	75-125		0		
Lead		4.259	0.050	0.5	3.212	209	75-125		0		SO
MSD	Sample ID: 13031112-09AMSD					Units: mg/L		Analysis Date: 4/1/2013 02:43 PM			
Client ID: CP-4C		Run ID: ICPMS05_130401A		SeqNo: 3159766		Prep Date: 4/1/2013		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.5627	0.020	0.5	0.09033	94.5	75-125	0.5653	0.457	20	
Lead		4.339	0.050	0.5	3.212	226	75-125	4.259	1.87	20	SO
DUP	Sample ID: 13031112-09ADUP					Units: mg/L		Analysis Date: 4/1/2013 02:38 PM			
Client ID: CP-4C		Run ID: ICPMS05_130401A		SeqNo: 3159764		Prep Date: 4/1/2013		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.09561	0.020	0	0	0	0-0	0.09033	5.68	25	
Lead		3.642	0.050	0	0	0	0-0	3.212	12.5	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 2

Client: Exide Technologies
Work Order: 13031112
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68871**

Instrument ID **ICPMS05**

Method: **SW1311/6020**

The following samples were analyzed in this batch:

13031112-	13031112-	13031112-
01A	02A	03A
13031112-	13031112-	13031112-
04A	05A	06A
13031112-	13031112-	13031112-
07A	08A	09A
13031112-	13031112-	13031112-
10A	11A	12A
13031112-	13031112-	13031112-
13A	14A	15A
13031112-	13031112-	13031112-
16A	17A	18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 2 of 2

Client: Exide Technologies
Project: Exide Landfill 112.071
WorkOrder: 13031112

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter



Semi-Volatiles / Metals Extraction Log

Logbook #28802

Analysts:

Si

Batch ID 68855

SOP #:

TCLP-001

or SPLP-001

Vessel Number	Work Order Number	Sample weight, grams	% Solids	Vol. of Extract. Fluid, mls	pH Sx and H ₂ O	pH Sx HCl / H ₂ O	pH Ext. Fluid	Ext. Fluid ID.	pH After Tumble	Comments (TCLP or SPLP)
PU	MBUKTQ033013	—	—	2000	—	—	2.93	7073112	—	TCLP
PU	13031112-01A	100.0	—	2000	11.37	7.57	2.93	7073201	7	
PU	13031112-02A	100.0	—	2000	11.46	8.93	↑	↑	7	
PU	13031112-03A	100.0	—	2000	11.18	5.87	↑	↑	7	
PU	13031112-04A	100.0	—	2000	11.30	8.77	↑	↑	7	
PU	13031112-05A	100.0	—	2000	11.23	8.66	↑	↑	7	
PU	13031112-06A	100.0	—	2000	11.25	7.99	↑	↑	7	
PU	13031112-07A	100.0	—	2000	11.27	7.73	↑	↑	7	
PU	13031112-08A	100.0	—	2000	11.32	7.14	↑	↑	7	
PU	13031112-09A	100.0	—	2000	11.34	5.77	↑	↑	7	
PU	13031112-10A	100.0	—	2000	11.38	8.61	↑	↑	7	
PU	13031112-11A	100.0	—	2000	11.41	8.52	2.93	7073112	7	
PU	13031112-12A	100.0	—	2000	11.28	7.17	↑	↑	7	
PU	13031112-13A	100.0	—	2000	11.40	8.94	↑	↑	7	
PU	13031112-14A	100.0	—	2000	11.32	8.75	↑	↑	7	
PU	13031112-15A	100.0	—	2000	11.36	7.64	↑	↑	6	
PU	13031112-16A	100.0	—	2000	11.38	8.93	↑	↑	7	
PU	13031112-17A	100.0	—	2000	11.29	8.49	↑	↑	7	
PU	13031112-18A	100.0	—	2000	11.39	6.61	↓	↓	7	
PU	-18AMS↓	—	—	↓	11.39	6.61	↓	↓	7	
<u>68855</u>										

Balance ID: TWP-2 pH Meter ID: TWP pH 1 Therm. ID: TCLP #1 1N HCl Tracking ID: 28802-0821Date/Time In: 15:00 pm 03/31/13 Date/Time Out: 15:00 am 03/31/13 Date/Time Filter/Initials: 10:00 am 03/31/13 Filter Lot #: 4002.7MIN Temp, °C: 22.5 Room Temp Limits: 21-25 °C TCLP Tumbler IDs: 3+4 Delivery Date/Time/Initials:MAX Temp, °C: 23.5 Rev Accept. Range: 56.5 - 64 sec # sec / 30 Revolution: 60.5 03/30/13 3pm

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 30-Mar-13 09:15

Work Order: 13031112

Received by: RDH

Checklist completed by Robert D. Harris

eSignature

30-Mar-13

Date

Reviewed by: Bernadette A. Fine

eSignature

30-Mar-13

Date

Matrices: soils

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

21.7c c/u 005

Cooler(s)/Kit(s):

4778

Date/Time sample(s) sent to storage:

3/30/13 10:40

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

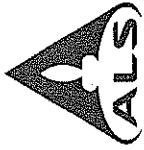
Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Chain of Custody Form

EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide Demo 112.071

Environmental

COC ID: 78919

Customer Information

Customer Information		Project Information															
Purchase Order	Project Name	Ex-IDE	DEMO	A	TCLP Metals (SW-846) Pb & Cd												
Work Order	Project Number	112.071		B													
Company Name	Bill To Company	Exide Technologies		C													
Send Report To	Invoice Attn	Vanessa Coleman		D													
Address	Address	7471 South Fifth Street		E													
City/State/Zip	City/State/Zip	Frisco, TX 75034		F													
Phone	Phone	(972) 335-2121		G													
Fax	Fax			H													
e-Mail Address	e-Mail Address	jclark@whm.com		I													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CP-2D	3/29/13	7:40	SS	none	1											
2	CP-2C		7:50														
3	CP-3A		7:57														
4	CP-3B		8:18														
5	CP-3C		8:35														
6	CP-3D		8:39														
7	CP-4A		8:59														
8	CP-4B		9:18														
9	CP-4C		9:43														
10	CP-4D		9:45														
Sampler(s) Please Print & Sign		Brent Voldmar		Shipment Method		Received by:		Required Turnaround Time: (Check Box)		Other		Results Due Date:					
BRENT VOLDMAR		Brent Voldmar		FedEx		Received by Laboratory:		<input type="checkbox"/> Std 10 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 24 Hour					
Reinquished by:		Date: 3/29/13		Time: 17:00		Received by Laboratory:		48 Hr TAT		Notes:							
Reinquished by:		Date: 3/29/13		Time: 17:00		Received by Laboratory:		<input checked="" type="checkbox"/> Std 10 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 24 Hour					
Logged by (Laboratory):		Date: 3/29/13		Time: 17:00		Checked by (Laboratory):											
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₈	6-NaHSO ₄	7-Other	8-4°C	9-5035							

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



Environmental

Chain of Custody Form

Cincinnati, OH Fort Collins, CO
+1 513 733 5336 +1 970 490 1511

Everett, WA Holland, MI
+1 425 356 2600 +1 616 399 6070

Page 2 of 2
COC ID: 78912

Houston, TX 1281 550 5656 Spring City, PA +1 610 948 4903
Middletown, PA Salt Lake City, UT +1 717 944 5541 +1 801 266 7700
York, PA +1 717 505 5280

Customer Information

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	Project Name	Exide Dem	A	TCLP Metals (SW-846) Pb & Cd	
Work Order	Project Number	1/2, 071	B		
Company Name	Bill To Company	Exide Technologies	C		
Send Report To	Invoice Attn	Vanessa Coleman	D		
Address	Address	7471 South Fifth Street	E		
City/State/Zip	City/State/Zip	Frisco, TX 75034	G		
Phone	Phone	(972) 335-2121	H		
Fax	Fax	I	J		
e-Mail Address	e-Mail Address	jvanessa.coleman@exide.com			
No.	Sample Description	Date	Time	Matrix	Pres.
1	CP-5A	3/24/13	10:00	SS	None
2 of 20	CP-5B	3/29/13	10:20		
3	CP-5C		10:34		
4	CP-5D		10:36		
5	CP-6A		11:00		
6	CP-6B		11:15		
7	Drop - 4				
8	Drop - 5				
9	Drop - 6				
10					
Sampler(s) Please Print & Sign		Shipment Method	Required Turnaround Time: Check Box	Results Due Date:	
<u>Beant Jones</u>		Field Ex	<input type="checkbox"/> Other <input type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hr	Results Due Date:	
Reinforced by:	Date:	Time:	Received by:	QC Package: Check the Box Below	
<u>Beant Jones</u>	3/29/13	11:00	<u>Beant Jones</u>	<input checked="" type="checkbox"/> Cooler Temp <input type="checkbox"/> QC Package: Check the Box Below	
Reinforced by:	Date:	Time:	Received by:	QC Package: Check the Box Below	
<u>Beant Jones</u>	3/29/13	11:00	<u>Beant Jones</u>	<input checked="" type="checkbox"/> Level I Std QC <input type="checkbox"/> Level II Std QC, Raw Data <input type="checkbox"/> Level IV SW-846/CLP <input type="checkbox"/> Other / EDD	
Logged by Laboratory:	Date:	Time:	Checked by Laboratory:		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-MgSO ₄ 6-MgSO ₄ 7-Other 8-4°C 9-30°C					

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

16051111

00768
01000

FedEx Package
Express US Airbill

1 From [REDACTED]
Date [REDACTED]

Sender's Name BRENT VOLLMER Phone 972 516-0300
Company WAMI ENVIRONMENTAL

Address 906 E. 18th St.
City Plano State TX ZIP 75074
Dept./Floor/Suite/Room [REDACTED]

2 Your Internal Billing Reference

3 To Recipient's Name CLIENT SERVICES Phone 281 530-5656
Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210
We cannot deliver to P.O. boxes or P.D. ZIP codes.
Address [REDACTED]
Use this line for the HOLD location address or for continuation of your shipping address.
City HOUSTON State TX ZIP 77099-4338
Dept./Floor/Suite/Room [REDACTED]

HOLD Weekday
FedEx location address
 REQUIRED NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address
 REQUIRED Available ONLY for FedEx Priority Overnight and FedEx Day to select locations.

0455550776

8013 8013 0628



fedex.com 1800.60FedEx 1800.463.3339



03-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121

Fax:

Re: Exide Landfill 112.071

Work Order: **1304011**

Dear Vanessa,

ALS Environmental received 27 samples on 01-Apr-2013 08:42 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 4H

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Bernadette Fini".

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager



Certificate No: TX: T104704231-12-10

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#JUR X S#VD /#FR US1#Sdu#i#nch#DOV#Juxs#Dq#DOV#Dp lmg#Frp sdq |

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: **1304011**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1304011-01	CP-6C	Solid		3/30/2013 08:45	4/1/2013 08:42	<input type="checkbox"/>
1304011-02	CP-6D	Solid		3/30/2013 08:47	4/1/2013 08:42	<input type="checkbox"/>
1304011-03	CP-7A	Solid		3/30/2013 09:00	4/1/2013 08:42	<input type="checkbox"/>
1304011-04	CP-7B	Solid		3/30/2013 09:18	4/1/2013 08:42	<input type="checkbox"/>
1304011-05	CP-7C	Solid		3/30/2013 09:40	4/1/2013 08:42	<input type="checkbox"/>
1304011-06	CP-7D	Solid		3/30/2013 09:42	4/1/2013 08:42	<input type="checkbox"/>
1304011-07	CP-8A	Solid		3/30/2013 09:53	4/1/2013 08:42	<input type="checkbox"/>
1304011-08	CP-8B	Solid		3/30/2013 10:10	4/1/2013 08:42	<input type="checkbox"/>
1304011-09	CP-8C	Solid		3/30/2013 10:24	4/1/2013 08:42	<input type="checkbox"/>
1304011-10	CP-8D	Solid		3/30/2013 10:26	4/1/2013 08:42	<input type="checkbox"/>
1304011-11	CP-9A	Solid		3/30/2013 10:47	4/1/2013 08:42	<input type="checkbox"/>
1304011-12	CP-9B	Solid		3/30/2013 11:07	4/1/2013 08:42	<input type="checkbox"/>
1304011-13	CP-9C	Solid		3/30/2013 11:19	4/1/2013 08:42	<input type="checkbox"/>
1304011-14	CP-9D	Solid		3/30/2013 11:21	4/1/2013 08:42	<input type="checkbox"/>
1304011-15	CP-10A	Solid		3/30/2013 11:34	4/1/2013 08:42	<input type="checkbox"/>
1304011-16	CP-10B	Solid		3/30/2013 13:13	4/1/2013 08:42	<input type="checkbox"/>
1304011-17	CP-10C	Solid		3/30/2013 13:29	4/1/2013 08:42	<input type="checkbox"/>
1304011-18	CP-10D	Solid		3/30/2013 13:30	4/1/2013 08:42	<input type="checkbox"/>
1304011-19	CP-11A	Solid		3/30/2013 13:50	4/1/2013 08:42	<input type="checkbox"/>
1304011-20	CP-11B	Solid		3/30/2013 14:14	4/1/2013 08:42	<input type="checkbox"/>
1304011-21	CP-11C	Solid		3/30/2013 14:58	4/1/2013 08:42	<input type="checkbox"/>
1304011-22	CP-11D	Solid		3/30/2013 14:59	4/1/2013 08:42	<input type="checkbox"/>
1304011-23	CP-12A	Solid		3/30/2013 15:30	4/1/2013 08:42	<input type="checkbox"/>
1304011-24	CP-12B	Solid		3/30/2013 15:48	4/1/2013 08:42	<input type="checkbox"/>
1304011-25	CP-12C	Solid		3/30/2013 16:06	4/1/2013 08:42	<input type="checkbox"/>
1304011-26	CP-12D	Solid		3/30/2013 16:08	4/1/2013 08:42	<input type="checkbox"/>
1304011-27	DUP-10	Solid		3/30/2013	4/1/2013 08:42	<input type="checkbox"/>

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 1304011

Case Narrative

No Exceptions

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6C
Collection Date: 3/30/2013 08:45 AM

Work Order: 1304011
Lab ID: 1304011-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.330		0.00800	0.0200	mg/L	10	4/2/2013 16:49
Lead	2.62		0.00700	0.0500	mg/L	10	4/2/2013 16:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6D
Collection Date: 3/30/2013 08:47 AM

Work Order: 1304011
Lab ID: 1304011-02
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 16:51
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 16:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-7A
Collection Date: 3/30/2013 09:00 AM

Work Order: 1304011
Lab ID: 1304011-03
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.110		0.00800	0.0200	mg/L	10	4/2/2013 16:54
Lead	0.508		0.00700	0.0500	mg/L	10	4/2/2013 16:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-7B
Collection Date: 3/30/2013 09:18 AM

Work Order: 1304011
Lab ID: 1304011-04
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 16:56
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 16:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-7C
Collection Date: 3/30/2013 09:40 AM

Work Order: 1304011
Lab ID: 1304011-05
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 17:03
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 17:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-7D
Collection Date: 3/30/2013 09:42 AM

Work Order: 1304011
Lab ID: 1304011-06
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 17:05
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 17:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-8A
Collection Date: 3/30/2013 09:53 AM

Work Order: 1304011
Lab ID: 1304011-07
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.0107	J	0.00800	0.0200	mg/L	10	4/2/2013 17:08
Lead		U	0.00700	0.0500	mg/L	10	4/2/2013 17:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-8B
Collection Date: 3/30/2013 10:10 AM

Work Order: 1304011
Lab ID: 1304011-08
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 17:10
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 17:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-8C
Collection Date: 3/30/2013 10:24 AM

Work Order: 1304011
Lab ID: 1304011-09
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 17:13
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 17:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-8D
Collection Date: 3/30/2013 10:26 AM

Work Order: 1304011
Lab ID: 1304011-10
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	1.38		0.00800	0.0200	mg/L	10	4/2/2013 17:15
Lead	15.9		0.00700	0.0500	mg/L	10	4/2/2013 17:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9A
Collection Date: 3/30/2013 10:47 AM

Work Order: 1304011
Lab ID: 1304011-11
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	2.96		0.00800	0.0200	mg/L	10	4/2/2013 17:18
Lead	20.0		0.0700	0.500	mg/L	100	4/2/2013 20:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9B
Collection Date: 3/30/2013 11:07 AM

Work Order: 1304011
Lab ID: 1304011-12
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.717		0.00800	0.0200	mg/L	10	4/2/2013 17:20
Lead	6.56		0.00700	0.0500	mg/L	10	4/2/2013 17:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9C
Collection Date: 3/30/2013 11:19 AM

Work Order: 1304011
Lab ID: 1304011-13
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	1.65		0.00800	0.0200	mg/L	10	4/2/2013 17:22
Lead	21.4		0.0700	0.500	mg/L	100	4/2/2013 20:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9D
Collection Date: 3/30/2013 11:21 AM

Work Order: 1304011
Lab ID: 1304011-14
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.640		0.00800	0.0200	mg/L	10	4/2/2013 17:25
Lead	4.81		0.00700	0.0500	mg/L	10	4/2/2013 17:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10A
Collection Date: 3/30/2013 11:34 AM

Work Order: 1304011
Lab ID: 1304011-15
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.629		0.00800	0.0200	mg/L	10	4/2/2013 17:32
Lead	5.53		0.00700	0.0500	mg/L	10	4/2/2013 17:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10B
Collection Date: 3/30/2013 01:13 PM

Work Order: 1304011
Lab ID: 1304011-16
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.986		0.00800	0.0200	mg/L	10	4/2/2013 17:34
Lead	8.71		0.00700	0.0500	mg/L	10	4/2/2013 17:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10C
Collection Date: 3/30/2013 01:29 PM

Work Order: 1304011
Lab ID: 1304011-17
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.237		0.00800	0.0200	mg/L	10	4/2/2013 17:37
Lead	1.17		0.00700	0.0500	mg/L	10	4/2/2013 17:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10D
Collection Date: 3/30/2013 01:30 PM

Work Order: 1304011
Lab ID: 1304011-18
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 17:39
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 17:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-11A
Collection Date: 3/30/2013 01:50 PM

Work Order: 1304011
Lab ID: 1304011-19
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.0221		0.00800	0.0200	mg/L	10	4/2/2013 18:10
Lead		U	0.00700	0.0500	mg/L	10	4/2/2013 18:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-11B
Collection Date: 3/30/2013 02:14 PM

Work Order: 1304011
Lab ID: 1304011-20
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	0.0617		0.00800	0.0200	mg/L	10	4/2/2013 18:12
Lead	0.210		0.00700	0.0500	mg/L	10	4/2/2013 18:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-11C
Collection Date: 3/30/2013 02:58 PM

Work Order: 1304011
Lab ID: 1304011-21
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:15
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-11D
Collection Date: 3/30/2013 02:59 PM

Work Order: 1304011
Lab ID: 1304011-22
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:17
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-12A
Collection Date: 3/30/2013 03:30 PM

Work Order: 1304011
Lab ID: 1304011-23
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:20
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-12B
Collection Date: 3/30/2013 03:48 PM

Work Order: 1304011
Lab ID: 1304011-24
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:22
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-12C
Collection Date: 3/30/2013 04:06 PM

Work Order: 1304011
Lab ID: 1304011-25
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:29
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-12D
Collection Date: 3/30/2013 04:08 PM

Work Order: 1304011
Lab ID: 1304011-26
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:43
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 03-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: DUP-10
Collection Date: 3/30/2013

Work Order: 1304011
Lab ID: 1304011-27
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/2/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/2/2013 18:46
Lead	U		0.00700	0.0500	mg/L	10	4/2/2013 18:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies

Work Order: 1304011

Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: 68900		Instrument ID ICPMS05		Method: SW1311/6020								
MBLK		Sample ID: MBLKT2-040113-68900		Units: mg/L			Analysis Date: 4/2/2013 04:39 PM					
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium			U		0.020							
Lead			U		0.050							
MBLK		Sample ID: MBLKW3-040213-68900		Units: mg/L			Analysis Date: 4/2/2013 04:42 PM					
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium			U		0.020							
Lead			U		0.050							
LCS		Sample ID: MLCSW3-040213-68900		Units: mg/L			Analysis Date: 4/2/2013 04:44 PM					
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4514	0.020	0.5		0	90.3	80-120		0		
Lead		0.4443	0.050	0.5		0	88.9	80-120		0		
MS		Sample ID: 1304011-18AMS		Units: mg/L			Analysis Date: 4/2/2013 05:44 PM					
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4888	0.020	0.5	0.007159	96.3	75-125			0		
Lead		0.4802	0.050	0.5	-0.005297	97.1	75-125			0		
MSD		Sample ID: 1304011-18AMSD		Units: mg/L			Analysis Date: 4/2/2013 05:46 PM					
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4893	0.020	0.5	0.007159	96.4	75-125		0.4888	0.104	20	
Lead		0.4713	0.050	0.5	-0.005297	95.3	75-125		0.4802	1.86	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 4

Client: Exide Technologies
Work Order: 1304011
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68900** Instrument ID **ICPMS05** Method: **SW1311/6020**

DUP	Sample ID: 1304011-18ADUP			Units: mg/L			Analysis Date: 4/2/2013 05:41 PM			
Client ID:	CP-10D	Run ID: ICPMS05_130402A			SeqNo: 3161845		Prep Date: 4/2/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.009523	0.020	0	0	0	0-0	0.007159	0	25	J
Lead	U	0.050	0	0	0	0-0	-0.005297	0	25	

The following samples were analyzed in this batch:

1304011-01A	1304011-02A	1304011-03A
1304011-04A	1304011-05A	1304011-06A
1304011-07A	1304011-08A	1304011-09A
1304011-10A	1304011-11A	1304011-12A
1304011-13A	1304011-14A	1304011-15A
1304011-16A	1304011-17A	1304011-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 2 of 4

Client: Exide Technologies
Work Order: 1304011
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68901** Instrument ID **ICPMS05** Method: **SW1311/6020**

MBLK	Sample ID: MBLKT1-040113-68901				Units: mg/L		Analysis Date: 4/2/2013 06:00 PM				
Client ID:	Run ID: ICPMS05_130402A				SeqNo: 3161954		Prep Date: 4/2/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

MBLK	Sample ID: MBLKW4-040213-68901				Units: mg/L		Analysis Date: 4/2/2013 06:03 PM				
Client ID:	Run ID: ICPMS05_130402A				SeqNo: 3161955		Prep Date: 4/2/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

LCS	Sample ID: MLSCW4-040213-68901				Units: mg/L		Analysis Date: 4/2/2013 06:05 PM				
Client ID:	Run ID: ICPMS05_130402A				SeqNo: 3161956		Prep Date:		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4466	0.020	0.5	0	89.3	80-120	0			
Lead		0.4441	0.050	0.5	0	88.8	80-120	0			

MS	Sample ID: 1304011-25AMS				Units: mg/L		Analysis Date: 4/2/2013 06:34 PM				
Client ID: CP-12C	Run ID: ICPMS05_130402A				SeqNo: 3161968		Prep Date: 4/2/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4741	0.020	0.5	0.00055	94.7	75-125	0			
Lead		0.4748	0.050	0.5	-0.007328	96.4	75-125	0			

MSD	Sample ID: 1304011-25AMSD				Units: mg/L		Analysis Date: 4/2/2013 06:36 PM				
Client ID: CP-12C	Run ID: ICPMS05_130402A				SeqNo: 3161969		Prep Date: 4/2/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4812	0.020	0.5	0.00055	96.1	75-125	0.4741	1.49	20	
Lead		0.4866	0.050	0.5	-0.007328	98.8	75-125	0.4748	2.45	20	

DUP	Sample ID: 1304011-25ADUP				Units: mg/L		Analysis Date: 4/2/2013 06:31 PM				
Client ID: CP-12C	Run ID: ICPMS05_130402A				SeqNo: 3161967		Prep Date: 4/2/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020	0	0	0	0-0	0.00055	0	25	
Lead		U	0.050	0	0	0	0-0	-0.007328	0	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 3 of 4

Client: Exide Technologies
Work Order: 1304011
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68901**

Instrument ID **ICPMS05**

Method: **SW1311/6020**

The following samples were analyzed in this batch:

1304011-19A	1304011-20A	1304011-21A
1304011-22A	1304011-23A	1304011-24A
1304011-25A	1304011-26A	1304011-27A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 4 of 4



Semi-Volatiles / Metals Extraction Log

Logbook #28802

Analysts: Sj

Batch ID 6888

SOP #: TCLP-001 or SPLP-001

Vessel Number	Work Order Number	Sample weight, grams	% Solids	Vol. of Extract. Fluid, mls	pH Sx and H ₂ O	pH Sx HCl / H ₂ O	pH Ext. Fluid	Ext. Fluid ID.	pH After Tumble	Comments (TCLP or SPLP)
GU	M6UKT3040113	-	-	2000	-	-	2.91	7073203	-	TCLP
PV	1304011-01A	100.0	-	2000	10.92	5.05			7	
PV	1304011-02A	100.0	-	2000	11.19	8.70			8	
PV	1304011-03A	100.0	-	2000	11.25	6.95			7	
PV	1304011-04A	100.0	-	2000	11.32	9.40			7	
PV	1304011-05A	100.0	-	2000	11.23	5.15			7	
PV	1304011-06A	100.0	-	2000	11.27	5.20			7	
PV	1304011-07A	100.0	-	2000	11.31	7.38			7	
PV	1304011-08A	100.0	-	2000	11.21	5.59			7	
PV	1304011-09A	100.0	-	2000	11.28	8.59			7	
PV	1304011-10A	100.0	-	2000	11.30	8.80	2.93	7073204	7	
PV	1304011-11A	100.0	-	2000	11.24	7.68			7	
PV	1304011-12A	100.0	-	2000	11.33	6.94			7	
PV	1304011-13A	100.0	-	2000	11.20	8.45			7	
PV	1304011-14A	100.0	-	2000	11.18	5.18			7	
PV	1304011-15A	100.0	-	2000	11.26	7.62			7	
PV	1304011-16A	100.0	-	2000	11.22	6.87			7	
PV	1304011-17A	100.0	-	2000	11.25	5.73			7	
PV	1304011-18A	100.0	-	2000	11.28	5.12			7	
PV	1304011-19A	100.0	-	2000	11.15	8.52	↓	↓	8	
PV	1304011-20A	100.0	-	2000	11.26	5.36	2.89	7073205	7	
#	-20ATM5 ↓	-	-	↓	11.26	5.36	↓	↓	7	
Balance ID: TUL63	pH Meter ID: TUL pH 1			Therm. ID: TUL # 1			1N HCl Tracking ID: 286030831			
Date/Time In: 5:00 pm 04/01/13	Date/Time Out: 7:00 pm 04/01/13			Date/Time Filter/Initials: 04/01/13			Filter Lot# 400027			
MIN Temp, °C: 42.0 °C	Room Temp Limits:	21-25 °C		TCLP Tumbler IDs: 1			Delivery Date/Time/Initials: 04/01/13 12:00 pm XJP			
MAX Temp, °C: 73.0 °C	Rev Accept. Range:	56.5 - 64 sec		# sec / 30 Revolution: 56.50 ± 0.10113 6.0						



Analysts:

6

Semi-Volatiles / Metals Extraction Log

Logbook #28802

SOP #: TCLP-001 or SPLP-001

Client: Exide Technologies
Project: Exide Landfill 112.071
WorkOrder: 1304011

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 01-Apr-13 08:42

Work Order: 1304011

Received by: JBA

Checklist completed by Johnnie B. Allen
eSignature

01-Apr-13

Reviewed by: Bernadette A. Fine
eSignature

02-Apr-13

Date

Matrices: solid

Carrier name: FedEx Priority Overnight

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 18.7 C, 19.7 C, 18.6 C, 18.5 C/uc IR 1

Cooler(s)/Kit(s): 4782/2876/4868/2980

Date/Time sample(s) sent to storage: 4/1/13 11:55

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by: _____

Login Notes:

Client Contacted:

Date Contacted:

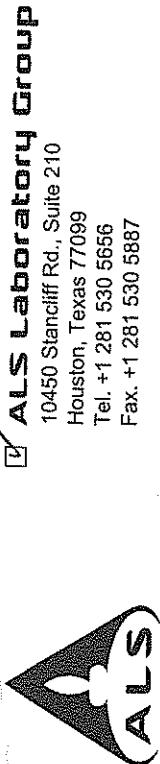
Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Chain of Custody Form

1304011

EXIDE TECHNOLOGIES: Exide Technologies

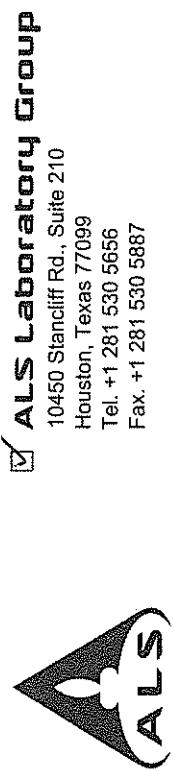
Page 1 of 3

Project: Exide Demo 112.071



Customer Information		ALS Project Manager:															
Purchase Order	Project Name	Project Information		Project Manager													
Work Order	Project Number	A	B	C	D	E	F	G	H	I	J	Hold					
Company Name Send Report To	Bill To Company Invoice Attn	Exide Technologies Vassie Collier															
Address	Address	Jane															
City/State/Zip	City/State/Zip	G															
Phone	Phone	H															
Fax	Fax	I															
e-Mail Address	e-Mail Address	J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1 of 39	CP-6C	3/30/13	8:45	SS	none	1	X										
2 of 43	CP-CD		8:47														
3	CP-7A		9:00														
4	CP-7B		9:18														
5	CP-7C		9:40														
6	CP-7D		9:42														
7	CP-8A		9:53														
8	CP-8B		10:10														
9	CP-8C		10:24														
10	CP-8D		10:26														
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Other _____		Results Due Date:									
BENT WILHELM, Lab Manager		Ground		<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 24 Hour													
Established by: Bent Wilhelm		Date: 3/30/13	Time: 19:00	Received by (Laboratory):													
Relinquished by: Bent Wilhelm		Date: 3/30/13	Time: 19:00	Received by (Laboratory):													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):													
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035	Notes: 48 Hr. TAT	QC Package: (Check One Box Below)					
											<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other	☐ TRRP Checklist ☐ TRRP Level IV					

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Page 2 of 3

Customer Information		Project Information		Parameter/Method Request for Analysis		ALS Work Order #:	
Purchase Order		Project Name	EXIDE DEMO	A	TCLP Metals (SW-846) Pb & Cd		
Work Order		Project Number	112.071	B			
Company Name	Exide Technologies	Bill To Company		C			
Send Report To	Vanessa Tolman	Invoice Attn	SAME	D			
Address	7471 S. 5th St.	Address		E			
City/State/Zip	Phoenix, TX 75034	City/State/Zip		F			
Phone	(912) 335-2121	Phone		G			
Fax		Fax		H			
e-Mail Address	lclark@phx-m.com	e-Mail Address		I			
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	Hold
1	CP-9A	3/30/13	11:47	SS	none	1	X
2	CP-9B		11:07	BB			
3	CP-9C		11:19				
4	CP-9D		11:21				
5	CP-10A		11:34				
6	CP-10B		13:13				
7	CP-10C		13:29				
8	CP-10D		13:30				
9	CP-11A		13:50				
10	CP-11B		14:14				
Shipment Method		Required Turnaround Time: (Check Box)		Other		Results Due Date:	
FEDEx		<input type="checkbox"/> STD 10 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 2 Wk Days	
		<input type="checkbox"/> 24 Hour					
Sampl(s) Please Print & Sign		Received by:		Notes:			
<u>Brent Johnson</u>		<u>1303</u>		4/8 loc TAT			
Retriggured by:	<u>Brent Johnson</u>	Date: <u>3/30/13</u>	Time: <u>12:02</u>	Received by (Laboratory):	QC Package: (Check One Box Below)		
Relinquished by:		Date: <u>3/30/13</u>	Time: <u>12:02</u>	Received by (Laboratory):			
Logged by (Laboratory):		Date: <u>3/30/13</u>	Time: <u>12:02</u>	Checked by (Laboratory):			
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₃	6-NaHSO ₄	7-Other
							8-4°C
							9-5035

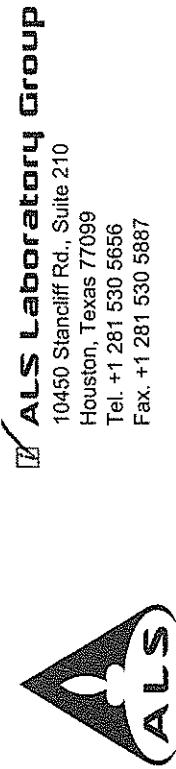
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Level II Std QC
 Level III Std QC/Raw Date
 Level IV SW846/CLP
 Other

TRRP Checklist

TRRP Raw Date
 TRRP Level IV



Chain of Custody Form

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Page 2 of 2

Customer Information		Project Information										ALS Project Manager:		ALS Work Order #: <u>1309011</u>									
														Parameter/Method Request for Analysis									
Purchase Order		Project Name	TCPP Metals (Gu-846) Pb & Cd									A	B	C	D	E	F	G	H	I	J	Hold	
Work Order		Project Number	112.071																				
Company Name	Eckle Technologies	Bill To Company										C											
Send Report To	Vanessa Colmenar	Invoice Attn										D											
Address	7471 S. 5th St.	Address										E											
City/State/Zip	Houston, TX 77034	City/State/Zip										F											
Phone	(912) 335-2121	Phone										G											
Fax		Fax										H											
e-Mail Address	lillock@uconn.com	e-Mail Address	lillock@uconn.com									I											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J							
1	CP-11C	3/30/03	14:58	SS	none	1	X																
2	CP-11D		14:59																				
3	CP-12A		15:30																				
4	CP-12B		15:48																				
5	CP-12C		16:06																				
6	CP-12D		16:08																				
7	Dup-10																						
8																							
9																							
10																							
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Other		Results Due Date:															
<u>Brent Volumar and Voll</u>		Fed Ex		<input type="checkbox"/> STD 20 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 24 Hour		<input type="checkbox"/> 1/2 Wk Days		Notes: <u>3/30/03 0830hr TAT.</u>															
Relinquished by: <u>Brent</u>		Date: <u>3/30/03</u>	Time: <u>12:00</u>	Received by: <u>Brent</u>	Time: <u>12:00</u>	Cooler ID: <u>3013</u>	Cooler Temp: <u>30</u>	QC Package: (Check One Box Below)															
Relinquished by:		Date:	Time:	Received by (Laboratory):	Time:			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Checklist													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):	Time:			<input type="checkbox"/> Level IV SW846/CLP	<input type="checkbox"/> Other	<input type="checkbox"/> TRRP Level IV													
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₃	6-NaHSO ₃	7-Other	8-4°C	9-5035													

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

edEx Package
Express US Airbill

FedEx
Tracking
Number

8013 8013 0683

From _____
Date 3/30/13
Sender's Name Henry Villanueva Phone 972 516-0300
Company Alpha Chemicals
Address 906 E. 18th St.
City Plano State TX ZIP 75074
Dept/Floor/Suite/Room _____

Your Internal Billing Reference

To _____
Recipient's Name **CLIENT SERVICES** Phone **(281) 530-5656**
Company **ALS LABORATORY GROUP**

Address **10450 STANCLIFF RD STE 210**

Use this line for the HOLD location address or for continuation of your shipping address.

Address 10450 STANCLIFF RD STE 210
City HOUSTON State TX ZIP 77099-4338

Dept/Floor/Suite/Room _____

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

8013 8013 0683

MON - 01
PRIORITY

TRK# **8013 8013 0683**
0215

XH SGRA



Package
US Airbill

FedEx
Tracking
Number

8013 8013 0606

30/13
Henry Villanueva Phone 972 516-0300
Henry
906 E. 18th St.
State TX ZIP 75074
Dept/Floor/Suite/Room _____

Internal Billing Reference
Phone **(281) 530-5656**

CLIENT SERVICES Phone **(281) 530-5656**
ALS LABORATORY GROUP

10450 STANCLIFF RD STE 210

Use P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

0455550776

ORIGIN ID: JMDA (281) 530-5656
ALS LABORATORY GROUP
10450 STANCLIFF RD STE 210
HOUSTON, TX 77099-4338
UNITED STATES US

SHIP DATE: 30MAR13
ACTWT: 33.5 LB
CAD: /POS1400
DIMS: 18x15x11 IN

BILL SENDER

To **CLIENT SERVICES**
ALS LABORATORY GROUP
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099

(281) 530-5656
THU:
POI

MON - 01 APR 10:3
PRIORITY OVERNIG

TRK# **8013 8013 0606**
0215

XH SGRA



770
TX-US

FEDEx® Package
US Airbill

FedEx
Tracking
Number

8013 8013 0477

3/30/13

to's
e BRENT Vollmar
Phone 972 516-0300
pany WEM
ress 906 E. 18th St.
Plano TX ZIP 75074
Dept/Floor/Suite/Room

Internal Billing Reference

Patient's
name CLIENT SERVICES Phone 281 530-5636

Company ALG LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

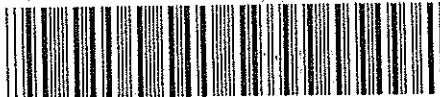
cannot deliver to P.O. boxes or F.O. ZIP codes.

Dept/Floor/Suite/Room

Address this line for the HOLD location address or for continuation of your shipping address.

HOUSTON State TX ZIP 77099-4338

0455550776



8013 8013 0477

6187
04/01
FedEx
Tracking
Number

8013 8012 6187

3/30/13

to's BRENT Vollmar
Phone 972 516-0300
any WEM
ress 906 E. 18th St.
Plano TX ZIP 75074
Dept/Floor/Suite/Room

Internal Billing Reference

Patient's
name CLIENT SERVICES Phone 281 530-5636

Company ALG LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

cannot deliver to P.O. boxes or F.O. ZIP codes.

Dept/Floor/Suite/Room

Address this line for the HOLD location address or for continuation of your shipping address.

HOUSTON State TX ZIP 77099-4338

0455550776



8013 8012 6187

Form ID No. 0215

4 Express Package Set

NOTE: Service order has changed

Next Business Day

FedEx First Overnight
Earliest next business morning delivery locations. Friday shipments will be delivered Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
Next business morning. Friday shipments delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
Next business afternoon. Saturday Delivery NOT available.

5 Packaging • Declared

FedEx Envelope*

6 Special Handling an

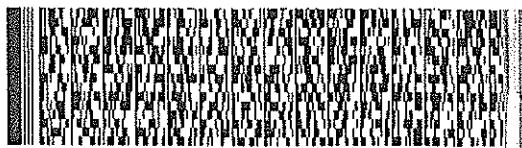
SATURDAY Delivery
NOT available for FedEx Standard or FedEx First Overnight.

No Signature Required
Package may be left without obtaining a signature for delivery.

Does this shipment contain

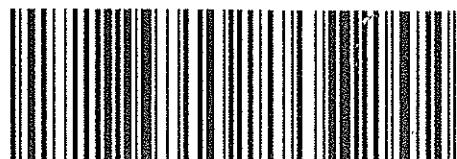
No
 Yes
One box must be
As per attached
Shipper's Declaration. — not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.



MON -
PRIORITY

XH SGRA



611

*Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Form ID No. 0215

4 Express Package:

NOTE: Service order has changed

Next Business Day

FedEx First Overnight
Earliest next business morning delivery locations. Friday shipments will be delivered Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
Next business morning. Friday shipments delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Over
Next business afternoon. Saturday Delivery NOT available.

5 Packaging • Declared

FedEx Envelope*

6 Special Handli

SATURDAY Deliver
NOT available for FedEx Standard or FedEx First Overnight.

No Signature Requ
Package may be left without obtaining a signature for delivery.

Does this shipment

No
 Yes
One box must be
As per attached
Shipper's Declaration. — not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

TRK# 0215 8013 8012 6187

MON -
PRIORITY

XH SGRA



611

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender
Acct. No. in Section
1 will be billed.

Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight
24 lbs.

Credit Card Auth.

*Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Rev. Date 2/12 - Part #1E13A ©1994-2012 FedEx • PRINTED IN U.S.A. SRS



04-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121

Fax:

Re: Exide Landfill 112.071

Work Order: **1304043**

Dear Vanessa,

ALS Environmental received 33 samples on 02-Apr-2013 09:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Bernadette Fini".

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager



Certificate No: TX: T104704231-12-10

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#JUR X S#VD /#FR US1#Sdu#i#nch#DOV#Juxs#Dq#DOV#Dp lmg#Frp sdq |

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 1304043

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1304043-01	CP-13A	Solid		4/1/2013 08:00	4/2/2013 09:10	<input type="checkbox"/>
1304043-02	CP-13B	Solid		4/1/2013 08:30	4/2/2013 09:10	<input type="checkbox"/>
1304043-03	CP-13C	Solid		4/1/2013 08:50	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-04	CP-13D	Solid		4/1/2013 08:51	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-05	CP-14A	Solid		4/1/2013 09:08	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-06	CP-14B	Solid		4/1/2013 09:27	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-07	CP-14C	Solid		4/1/2013 11:00	4/2/2013 09:10	<input type="checkbox"/>
1304043-08	CP-14D	Solid		4/1/2013 11:02	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-09	CP-15A	Solid		4/1/2013 11:18	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-10	CP-15B	Solid		4/1/2013 11:35	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-11	CP-15C	Solid		4/1/2013 12:50	4/2/2013 09:10	<input type="checkbox"/>
1304043-12	CP-15D	Solid		4/1/2013 12:51	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-13	CP-16A	Solid		4/1/2013 13:10	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-14	CP-16B	Solid		4/1/2013 13:27	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-15	CP-16C	Solid		4/1/2013 13:50	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-16	CP-16D	Solid		4/1/2013 13:51	4/2/2013 09:10	<input type="checkbox"/>
1304043-17	CP-17A	Solid		4/1/2013 14:12	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-18	CP-17B	Solid		4/1/2013 14:30	4/2/2013 09:10	<input type="checkbox"/>
1304043-19	CP-17C	Solid		4/1/2013 14:45	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-20	CP-17D	Solid		4/1/2013 14:47	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-21	CP-18A	Solid		4/1/2013 15:00	4/2/2013 09:10	<input type="checkbox"/>
1304043-22	CP-18B	Solid		4/1/2013 15:23	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-23	CP-18C	Solid		4/1/2013 15:25	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-24	CP-19C	Solid		4/1/2013 15:58	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-25	CP-19A	Solid		4/1/2013 15:40	4/2/2013 09:10	<input type="checkbox"/>
1304043-26	CP-19B	Solid		4/1/2013 15:57	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-27	CP-20A	Solid		4/1/2013 16:27	4/2/2013 09:10	<input type="checkbox"/>
1304043-28	CP-20B	Solid		4/1/2013 16:50	4/2/2013 09:10	<input checked="" type="checkbox"/>
1304043-29	CP-20C	Solid		4/1/2013 16:54	4/2/2013 09:10	<input type="checkbox"/>
1304043-30	Dup-11	Solid		4/1/2013	4/2/2013 09:10	<input type="checkbox"/>
1304043-31	Dup-12	Solid		4/1/2013	4/2/2013 09:10	<input type="checkbox"/>
1304043-32	Dup-13	Solid		4/1/2013	4/2/2013 09:10	<input type="checkbox"/>
1304043-33	Dup-14	Solid		4/1/2013	4/2/2013 09:10	<input type="checkbox"/>

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 1304043

Case Narrative

No Exceptions

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-13A
Collection Date: 4/1/2013 08:00 AM

Work Order: 1304043
Lab ID: 1304043-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:18
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-13B
Collection Date: 4/1/2013 08:30 AM

Work Order: 1304043
Lab ID: 1304043-02
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:20
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-14C
Collection Date: 4/1/2013 11:00 AM

Work Order: 1304043
Lab ID: 1304043-07
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:22
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-15C
Collection Date: 4/1/2013 12:50 PM

Work Order: 1304043
Lab ID: 1304043-11
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:25
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-16D
Collection Date: 4/1/2013 01:51 PM

Work Order: 1304043
Lab ID: 1304043-16
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:27
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-17B
Collection Date: 4/1/2013 02:30 PM

Work Order: 1304043
Lab ID: 1304043-18
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:29
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-18A
Collection Date: 4/1/2013 03:00 PM

Work Order: 1304043
Lab ID: 1304043-21
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:32
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-19A
Collection Date: 4/1/2013 03:40 PM

Work Order: 1304043
Lab ID: 1304043-25
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 17:34
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 17:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-20A
Collection Date: 4/1/2013 04:27 PM

Work Order: 1304043
Lab ID: 1304043-27
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 20:34
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 20:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-20C
Collection Date: 4/1/2013 04:54 PM

Work Order: 1304043
Lab ID: 1304043-29
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 20:36
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 20:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-11
Collection Date: 4/1/2013

Work Order: 1304043
Lab ID: 1304043-30
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 20:38
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 20:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-12
Collection Date: 4/1/2013

Work Order: 1304043
Lab ID: 1304043-31
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 20:41
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 20:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-13
Collection Date: 4/1/2013

Work Order: 1304043
Lab ID: 1304043-32
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 20:43
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 20:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 04-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: Dup-14
Collection Date: 4/1/2013

Work Order: 1304043
Lab ID: 1304043-33
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/3/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/3/2013 21:02
Lead	U		0.00700	0.0500	mg/L	10	4/3/2013 21:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies

Work Order: 1304043

Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: 68926		Instrument ID ICPMS05		Method: SW1311/6020						
MBLK		Sample ID: MBLKT1-040213-68926				Units: mg/L		Analysis Date: 4/3/2013 04:32 PM		
Client ID:		Run ID: ICPMS05_130403A			SeqNo: 3163589		Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0		0		
Lead	U	0.050	0	0	0	0-0		0		
MBLK		Sample ID: MBLKW5-040313-68926				Units: mg/L		Analysis Date: 4/3/2013 04:35 PM		
Client ID:		Run ID: ICPMS05_130403A			SeqNo: 3163590		Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								
LCS		Sample ID: MLCSW5-040313-68926				Units: mg/L		Analysis Date: 4/3/2013 04:37 PM		
Client ID:		Run ID: ICPMS05_130403A			SeqNo: 3163591		Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.478	0.020	0.5	0	95.6	80-120		0		
Lead	0.4887	0.050	0.5	0	97.7	80-120		0		
MS		Sample ID: 1304042-10AMS				Units: mg/L		Analysis Date: 4/3/2013 05:01 PM		
Client ID:		Run ID: ICPMS05_130403A			SeqNo: 3163601		Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.5055	0.020	0.5	0.002674	101	75-125		0		
Lead	0.4982	0.050	0.5	0.001463	99.4	75-125		0		
MSD		Sample ID: 1304042-10AMSD				Units: mg/L		Analysis Date: 4/3/2013 05:03 PM		
Client ID:		Run ID: ICPMS05_130403A			SeqNo: 3163602		Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.5018	0.020	0.5	0.002674	99.8	75-125	0.5055	0.727	20	
Lead	0.4928	0.050	0.5	0.001463	98.3	75-125	0.4982	1.09	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 4

Client: Exide Technologies
Work Order: 1304043
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68926** Instrument ID **ICPMS05** Method: **SW1311/6020**

DUP	Sample ID: 1304042-10ADUP			Units: mg/L			Analysis Date: 4/3/2013 04:59 PM			
Client ID:	Run ID: ICPMS05_130403A			SeqNo: 3163600			Prep Date: 4/3/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0	0.002674	0	25	
Lead	U	0.050	0	0	0	0-0	0.001463	0	25	

The following samples were analyzed in this batch:

1304043-01A	1304043-02A	1304043-07A
1304043-11A	1304043-16A	1304043-18A
1304043-21A	1304043-25A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 2 of 4

Client: Exide Technologies
Work Order: 1304043
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68928** Instrument ID **ICPMS05** Method: **SW1311/6020**

MBLK	Sample ID: MBLKT1-040213-68928				Units: mg/L		Analysis Date: 4/3/2013 07:18 PM				
Client ID:	Run ID: ICPMS05_130403A				SeqNo: 3163760		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

MBLK	Sample ID: MBLKW6-040313-68928				Units: mg/L		Analysis Date: 4/3/2013 07:20 PM				
Client ID:	Run ID: ICPMS05_130403A				SeqNo: 3163761		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

LCS	Sample ID: MLCSW6-040313-68928				Units: mg/L		Analysis Date: 4/3/2013 08:31 PM				
Client ID:	Run ID: ICPMS05_130403A				SeqNo: 3163764		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4749	0.020	0.5	0	95	80-120		0		
Lead		0.4949	0.050	0.5	0	99	80-120		0		

MS	Sample ID: 1304043-32AMS				Units: mg/L		Analysis Date: 4/3/2013 08:48 PM				
Client ID: Dup-13	Run ID: ICPMS05_130403A				SeqNo: 3163771		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4672	0.020	0.5	0.000142	93.4	75-125		0		
Lead		0.4743	0.050	0.5	0.000294	94.8	75-125		0		

MSD	Sample ID: 1304043-32AMSD				Units: mg/L		Analysis Date: 4/3/2013 08:50 PM				
Client ID: Dup-13	Run ID: ICPMS05_130403A				SeqNo: 3163772		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4787	0.020	0.5	0.000142	95.7	75-125	0.4672	2.42	20	
Lead		0.4816	0.050	0.5	0.000294	96.3	75-125	0.4743	1.52	20	

DUP	Sample ID: 1304043-32ADUP				Units: mg/L		Analysis Date: 4/3/2013 08:46 PM				
Client ID: Dup-13	Run ID: ICPMS05_130403A				SeqNo: 3163770		Prep Date: 4/3/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020	0	0	0	0-0	0.000142	0	25	
Lead		U	0.050	0	0	0	0-0	0.000294	0	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 3 of 4

Client: Exide Technologies
Work Order: 1304043
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **68928**

Instrument ID **ICPMS05**

Method: **SW1311/6020**

The following samples were analyzed in this batch:

1304043-27A	1304043-29A	1304043-30A
1304043-31A	1304043-32A	1304043-33A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 4 of 4



Semi-Volatiles / Metals Extraction Log

Logbook #28802

Analysts:

Si

Batch ID 68912

SOP #: (TCLP-001) or SPLP-001

Vessel Number	Work Order Number	Sample weight, grams	% Solids	Vol. of Extract. Fluid, mls	pH Sx and H ₂ O	pH Sx HCl / H ₂ O	pH Ext. Fluid	Ext. Fluid ID.	pH After Tumble	Comments (TCLP or SPLP)
GR	MBLKTR0404313	—	—	2000	—	—	2.88	7073207	—	
PV	1304012-23A	100.0	—	2000	10.36	5.51				TCLP
PV	1304012-25A	100.0	—	2000	9.87	5.48				4.97
PV	1304012-28A	100.0	—	2000	10.05	5.01				5.78
PV	1304042-04A	100.0	—	2000	10.99	5.21				4.74
PV	1304042-09A	100.0	—	2000	11.09	5.22				5.47
PV	1304043-01A	100.0	—	2000	10.87	6.42				5.83
PV	1304043-07A	100.0	—	2000	10.88	5.70		7073907		8.24
PV	1304043-16A	100.0	—	2000	11.04	5.68	2.89	7073909		9.45
PV	1304043-18A	100.0	—	2000	10.90	7.09				9.52
PV	1304043-21A	100.0	—	2000	11.07	7.31				9.56
PV	1304043-25A	100.0	—	2000	11.03	6.88				9.37
PV	1304043-27A	100.0	—	2000	10.98	6.36				9.73
PV	1304043-30A	100.0	—	2000	10.86	5.95				9.38
PV	1304043-31A	100.0	—	2000	10.95	5.19				9.37
PV	1304043-33A	100.0	—	2000	10.97	7.25				9.28
	-33Ams ↓	—	—	↓	10.97	7.25				8.63
										8.63
<i>1/2</i>										
Balance ID: TWP02	pH Meter ID: TCLP pH 1	Therm. ID: TWP #1	1N HCl Tracking ID: 296020801							
Date/Time In: 04/02/13 7:15 pm	Date/Time Out: 11:15 am	Date/Time Filter/Initials: 04/03/13	12:00 pm	04/03/13	Filter Lot# 400037					
MIN Temp, °C: 21.0°C	Room Temp Limits: 21-25 °C	TCLP Tumbler IDs: 3			Delivery Date/Time/Initials: fln					
MAX Temp, °C: 23.0°C	Rev Accept. Range: 56.5 - 64 sec	# sec / 30 Revolution: 605	04/02/13 00							



Semi-Volatiles / Metals Extraction Log

Logbook #28802

Analysts:

6

Batch ID 68911

SOP #: TCLP-001 or SPLP-001

Balance ID: TWR 02

pH Meter ID

CLP PH 1

Therm. ID:

卷之三

1N HCl Trace

286020301

Date/Time In: 5/15 pm
5/10/13

Date/Time Out: 9:15 AM
04/03/13

Date/Time Filter/Initials: 10:00 AM
0416313

Filter Lot# 400027

MIN Temp, °C: 21.0°

Room Temp Limits: 21-25 °C

TCLP Tumbler IDs: 2

Delivery Date/Time/Initials:

MAX Temp, °C: 32 °C

Rev Accept. Range: 56.5 - 64

sec / 30 Revolution:

Client: Exide Technologies
Project: Exide Landfill 112.071
WorkOrder: 1304043

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 02-Apr-13 09:10

Work Order: 1304043

Received by: RDH

Checklist completed by Paresh M. Giga
eSignature

02-Apr-13

Reviewed by: Bernadette A. Fine

02-Apr-13

eSignature

Date

Matrices: Solids

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Temperature(s)/Thermometer(s):

23.4c, 25.1c, 24.3c C/U IR1

Cooler(s)/Kit(s):

4899, 3016, 4748

Date/Time sample(s) sent to storage:

4/2/13 13:45

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes: Sampling times do not match See SRC - Logged in per chain - Sx - CP-16D - Received 2 x jars and logged in so.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

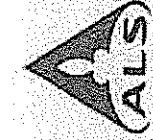
Regarding:

Comments:

[Large empty box for comments]

CorrectiveAction:

[Large empty box for corrective action]



1304043

Chain of Custody F

Cincinnati, OH Fort Collins, CO
+1 513 733 5336 +1 970 490 1511
Everett, WA Holland, MI
+1 425 356 2600 +1 616 399 6070

EXIDE TECHNOLOGIES, Exide Technologies

COC ID: 7831

Page 7 of 7

Project: Exide Landfill 117.071

Environmental

Customer Information

Purchase Order	Project Name	117.071	Project Number	EXIDE LANDFILL									
Work Order	Bill To Company		Invoice Attn	AL S ENVIRONMENTAL									
Company Name	Exide Technologies	Address	7421 South Farm Road										
Send Report To	Exide Technologies	City/State/Zip	21000-3434										
Address		Phone	(800) 235-1111										
City/State/Zip		Fax											
Phone	(800) 235-1111	e-Mail Address											
Fax		Date	2/2/03	Time	09:55 AM								
e-Mail Address		Matrix		Pres.	# Bottles								
No.	Sampling Description		A	B	C	D	E	F	G	H	I	J	Hair

1	CP-13A	9:00	2/2/03	SS	None	1	X						
2	CP-13B	9:30											
3	CP-13C	9:30											
4	CP-13D	9:31											
5	CP-14A	9:32											
6	CP-14B	9:37											
7	CP-14C	11:50											
8	CP-14D	11:57											
9	CP-15A	11:58											
10	CP-15B	11:58											

Samples(s) Please Print & Sign

Received by:	Date: 1/1/03	Time: 11:00	Received by:	Date: 1/1/03	Time: 11:00	Received by:	Date: 1/1/03	Time: 11:00	Received by:	Date: 1/1/03	Time: 11:00	Received by:	Date: 1/1/03	Time: 11:00
Requisitioned by:			Received by:			Received by:			Received by:			Received by:		
Logged by Laboratory:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₄	6-NaHSO ₄	7-Other							

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Environmental

Customer Information

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	Project Name	177-071	A	TYPED OR PRINTED ONLY	
Work Order	Project Number	EXT-177-071	B		
Company Name	Bill To Company	Enviro Landfill	C		
Send Report To	Invoice Addr	177-071	D		
Address	Address	177-071	E		
City/State/Zip	City/State/Zip	Phoenix, AZ 85041	F		
Phone	Phone	(602) 955-1111	G		
Fax	Fax		H		
e-Mail Address	e-Mail Address	EnviroLandfill@msn.com	I		
No.	Sample Description	Date	Time	Matrix	Pres.
1	CP-15C	4/1/13	12:45P	SS	water
2	CP-15D		12:51		
3	CP-16A		13:10		
4	CP-16B		13:22		
5	CP-16C		13:20		
6	CP-16D		13:51		
7	CP-17A		14:12		
8	CP-17B		14:30		
9	CP-17C		14:45		
10	CP-17D		14:47		
Samples Please Print & Sign		Shipment Method	Required Turnaround Time [Check Box]		
		First	Ex		
Re-_requested by:	Date:	Time:	Received by:	Notes:	
Re-inquired by:	Date:	Time:	Reinquiry by:	Notes:	
Logged by Laboratory:	Date:	Time:	Checked by Laboratory:	Notes:	
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₄
				6-NaHSO ₄	7-Other: 8-d-C 9-5035
ALS Work Order #: 13 ext 03					
Results Due Date: 4/2/13					
<input checked="" type="checkbox"/> Method Used <input checked="" type="checkbox"/> Sampled <input checked="" type="checkbox"/> QC Package <input checked="" type="checkbox"/> Check One Box Below					
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse. 3. The Chain of Custody is a legal document. All information must be completed accurately.					

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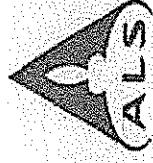
Page: 2 of 2

COC ID: 78914

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Project Name	Exide Line 71	A	ALS Work Order # 1354043												
Work Order	Project Number	12345	B													
Company Name	Bill To Company	Exide Technologies	C													
Sales Report To	Invoice Attn	Accounts Receivable	D													
Address	Address	700 South Franklin	E													
City/State/Zip	City/State/Zip	Houston, TX 77001	F													
Phone	Phone	(281) 355-2721	G													
Fax	Fax		H													
e-Mail Address	e-Mail Address		I													
No.	Sample Description	Date	Time	Matrix	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CP-12A	1/1/14	10:00													
2	CP-12B	1/1/14	10:13													X
3	CP-12C	1/1/14	10:25													X
4	CP-12D	1/1/14	10:38													X
5	CP-12E	1/1/14	10:40													
6	CP-12F	1/1/14	10:57													X
7	CP-20A	1/2/14	16:23													X
8	CP-20B	1/2/14	16:30													X
9	CP-20C	1/2/14	16:34													X
10	CP-20D	1/2/14	16:41													
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Notes:		Return Due Date:								
Reinquired by:	Date:	Time:	Received by:	Reinquired by Laboratory:	Date:	Time:	Received by Laboratory:	QC Peaking:	QC Peaking (Check One Box Below)							
Reinquired by:	Date:	Time:	Charged by Laboratory:	Date:	Time:	Charged by Laboratory:	QC Peaking:	QC Peaking (Check One Box Below)								
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₄	6-NaISO ₄	7-OH ₂	8-4°C	9-5035						

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ALS Laboratory Group

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Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6085

Page 4 of 4

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
						B-4043	
Purchase Order	Project Name	A	B	C	D	E	F
Work Order	Project Number	B	C	D	E	F	G
Company Name	Bill To Company	C	D	E	F	G	H
Send Report To	Invoice Attn	D	E	F	G	H	I
Address	Address	E	F	G	H	I	J
City/State/Zip	City/State/Zip	F	G	H	I	J	
Phone	Phone	G	H	I	J		
Fax	Fax	H	I	J			
E-Mail Address	E-Mail Address	I	J				
g No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A
1	Drift / 2	1/1/13	11:00				B
2	Drift / 2	1/1/13	11:00				C
3	Drift / 4	1/1/13	11:00				D
4							E
5							F
6							G
7							H
8							I
9							J
10							
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Relinquished by:	Date:	Time:	Received by:	5 Wk Days	2 Wk Days	24 hr	
Relinquished by:	Date:	Time:	Received by:	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 hr	
Logged by (Laboratory):	Date:	Time:	Received by:	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 hr	
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₄	6-NaHSO ₄	7-Other
							B-4-C
							9-5035

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ORIGIN ID:DNEA (281) 530-5656
ALS LABORATORY GROUP
10450 STANCLIFF RD STE 210
HOUSTON, TX 770994338
UNITED STATES US

SHIP DATE: 01APR13
ACTWTG: 18.0 LB
CAD: /POS1400
DIMS: 17x16x12 IN
BILL SENDER

TO CLIENT SERVICE
ALS LABS GROUP
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099

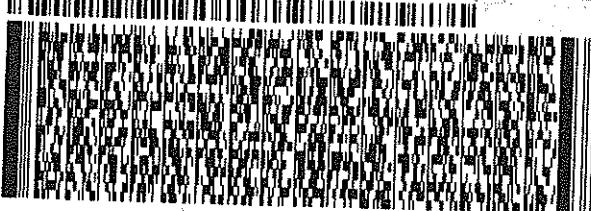
(281) 530-5656

REF:

THU:

PO:

DEPT:



FedEx
Express



13111302120126

1 of 3
TRK#
0215 8013 8012 6820
MASTER

43 SGRA

TUE - 02 APR 10:30A
PRIORITY OVERNIGHT

77099
TX-US IAH

489A



Part # 156297-A35 RIT2 Q3/12
SHIP DATE: 01APR13
ACTWTG: 18.0 LB
CAD: /POS1400
DIMS: 17x16x12 IN
BILL SENDER

ORIGIN ID:DNEA (281) 530-5656
ALS LABORATORY GROUP
10450 STANCLIFF RD STE 210
HOUSTON, TX 770994338
UNITED STATES US

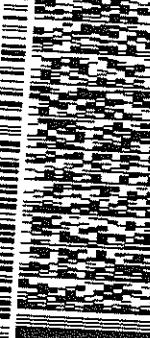
TO CLIENT SERVICE
ALS LABS GROUP
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099

REF:

THU:

PO:

DEPT:



FedEx
Express



13111302120126

TUE - 02 APR 10:30A
PRIORITY OVERNIGHT

77099
TX-US IAH

4748

3 of 3
MPS# 7957 7250 9498
0681
Mstr# 8013 8012 6820
0215

43 SGRA

Fed
Expr

770
TX-US IAH

3046

TUE - 02 APR 10:30A
PRIORITY OVERNIGHT

ORIGIN ID:DNEA (281) 530-5656
ALS LABORATORY GROUP
10450 STANCLIFF RD STE 210
HOUSTON, TX 770994338
UNITED STATES US

SHIP DATE: 01APR13
ACTWTG: 18.0 LB
CAD: /POS1400
DIMS: 17x16x12 IN
BILL SENDER

TO CLIENT SERVICE
ALS LABS GROUP
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099

(281) 530-5656

REF:

DEPT:

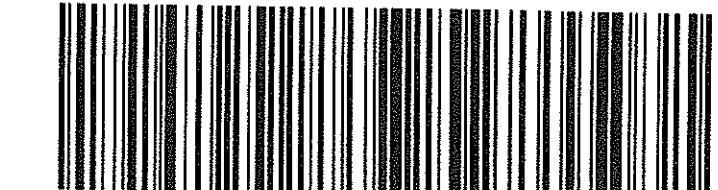


Fed
Expr

2 of 3
MPS# 7957 7250 9487
0681
Mstr# 8013 8012 6820
0215

43 SGRA

770
TX-US IAH



6



Wednesday, April 03, 2013

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Exide Landfill
Project Number: 112.071
Project Location: Frisco, TX

Oxidor received 6 solid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
13040010-001	CP-4A	Solid	3/29/2013 08:59	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040010-002	CP-6A	Solid	3/29/2013 11:00	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040010-003	CS-C5-1'	Solid	3/30/2013 10:20	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040010-004	CS-C3-1'	Solid	3/29/2013 12:58	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040010-005	CP-10B	Solid	3/30/2013 13:13	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040010-006	CP-12B	Solid	3/30/2013 15:48	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction

Respectfully submitted,

Charles Brungardt
President



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-4A**

Oxidor Sample ID: 13040010-001

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/29/2013 08:59**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:35	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/02/13 14:53	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/02/13 14:53	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-6A**

Oxidor Sample ID: 13040010-002

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/29/2013 11:00**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:25	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/02/13 14:55	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/02/13 14:55	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CS-C5-1'**

Oxidor Sample ID: 13040010-003

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/30/2013 10:20**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:25	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010	0.529	mg/L	04/02/13 14:56	6020	K.O.	
TCLP Lead	0.05	0.050	3.57	mg/L	04/02/13 14:56	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CS-C3-1'**

Oxidor Sample ID: 13040010-004

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/29/2013 12:58**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:25	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010	0.182	mg/L	04/02/13 14:58	6020	K.O.	
TCLP Lead	0.05	0.050	0.675	mg/L	04/02/13 14:58	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-10B**

Oxidor Sample ID: 13040010-005

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/30/2013 13:13**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:25	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/02/13 15:00	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/02/13 15:00	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-12B**

Oxidor Sample ID: 13040010-006

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **3/30/2013 15:48**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/01/13 17:25	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/02/13 at 11:00</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/02/13 15:02	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/02/13 15:02	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Sample Cross ReferenceProject Name: **Exide Landfill**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
CP-4A	13040010-001	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L
CP-6A	13040010-002	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L
CS-C5-1'	13040010-003	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L
CS-C3-1'	13040010-004	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L
CP-10B	13040010-005	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L
CP-12B	13040010-006	TCLP Lead	6020	META_18747_L
		TCLP Cadmium	6020	META_18747_L



W&M Environmental Group, Inc.

Frank Clark

QC Summary

Project Name: Exide Landfill

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_18747_L									
Blank	TCLP Cadmium	ND mg/L							
	TCLP Lead	ND mg/L							
LCS	TCLP Cadmium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	TCLP Lead	0.096 mg/L		0.1 mg/L	96%	85-115%			
LCSD	TCLP Cadmium	0.102 mg/L		0.1 mg/L	102%	85-115%	0.1%	0-20%	
	TCLP Lead	0.096 mg/L		0.1 mg/L	96%	85-115%	0.3%	0-20%	
MS	TCLP Cadmium	0.483 mg/L	ND	0.5 mg/L	97%	80-120%			
	TCLP Lead	0.481 mg/L	0.048 mg/L	0.5 mg/L	87%	80-120%			
MSD	TCLP Cadmium	0.477 mg/L	ND	0.5 mg/L	96%	80-120%	1.1%	0-20%	
	TCLP Lead	0.476 mg/L	0.048 mg/L	0.5 mg/L	86%	80-120%	1.0%	0-20%	



W&M Environmental Group, Inc.

Frank Clark

Case Narrative

Project Name: **Exide Landfill**

ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section and / or Case Narrative

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of W&M Environmental Group, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of W&M Environmental Group, Inc. and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.



W&M Environmental Group, Inc.

Frank Clark

Sample Preservation Verification

Project Name: **Exide Landfill**Receipt temp: **Ambient**Receipt method: **Client**Custody seal intact: **Not Present**All samples / labels received intact: **Yes**Customer Sample ID: **CP-4A**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040010-001**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **03/29/13 08:59**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **CP-6A**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040010-002**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **03/29/13 11:00**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **CS-C5-1'**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040010-003**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **03/30/13 10:20**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **CS-C3-1'**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040010-004**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **03/29/13 12:58**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **CP-10B**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040010-005**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **03/30/13 13:13**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Grab		Temp	-



OXIDOR Laboratories, LLC



Order ID: 13040010

Date: 4/3/2013

Page 12 of 14

W&M Environmental Group, Inc.

Frank Clark

Sample Preservation Verification

Project Name: **Exide Landfill**

Customer Sample ID: **CP-12B**

Collected By: **Brent Vollmar**

Oxidor Sample ID: **13040010-006**

Collector Affiliation: **W&M Environmental Group, Inc.**

Collected: **03/30/13 15:48**

Matrix: **Solid**

	Indicated	Preservation	pH
Bottle Type			
8 oz Glass Jar	Temp		-

Count

Collection Method

Parts / Interval

Indicated

1

Grab

Preservation

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.



OXIDOR Laboratories, LLC



Order ID: 13040010

Date: 4/3/2013

Page 13 of 14

Chain of Custody

PROJECT DESCRIPTION: Exide Landfill



OXIDOR Laboratories, LLC
1825 East Plano Parkway, #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com



Chain of Custody Record

Page 1 of 1

Send Report To				Project / Report Information										
Company Name <i>WLM Environmental</i> Address <i>906 E. 18th St.</i> City <i>PLANO</i> State <i>TX</i> Zip <i>75074</i> Contact Name <i>FRANK CLARK</i> Contact Email <i>Frank.Clark@wlm.com</i> Phone <i>972-516-0300</i> Fax <i></i>				Circle Requested Turn Around Time (Less than 2 Days must be verified with lab) 7-10 Days 5-7 Days RUSH 3-4 Days 2 Days ASAP Project Name <i>EXIDE DEMO</i> Project Location <i>FRISCO, TX</i> Project # <i>112.071</i> PO # <i></i> Sampler Name <i>B. Vozmar</i> Sampler Company <i>WLM</i> Sampler Signature <i>Frank Clark</i>										
Send Invoice To (Only if Different from above)				Special Instructions *										
Company Name Address City _____ State _____ Zip _____ Contact Name Phone _____ Fax _____				Matrix Codes L - Liquid S - Solid W - Wipes A - Air Preservation Codes 1 - None 4 - HCl 2 - HNO ₃ 5 - NaOH 3 - H ₂ SO ₄ 6 - Ice 7 - Other Container Codes P - Plastic G - Glass O - Other										
				*Please confirm conditional requests prior to additional analysis										
Requested Analysis														
OXIDOR Order ID	Customer Sample ID	Sample Info		Matrix	# of Containers	Container Type	Pres Code	(Clip) / (Grab)	Parts / Interval	Hold	<i>TCLP Pb + Cd</i>	Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
		Date	Time											
13040010														
001	1 CP-4A	3/29/13	8:59	S	1	G	G		X				X	X
002	2 CP-6A	3/29/13	11:00	S	1	G	G		X				X	X
003	3 CS-C5-1'	3/30/13	10:20	S	1	G	G		X				X	X
004	4 CS-C3-1'	3/29/13	12:58	S	1	G	G		X				X	X
005	5 CP-10B	3/30/13	13:13	S	1	G	G		X				X	X
006	6 CP-12B	3/30/13	15:48	S	1	G	G		X				X	X
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
x <i>Frank Clark</i>		3/30/13		x <i>Frank Clark</i>	wlm	4/1/13	
x <i>Frank Clark</i>		4/1/13	0835	x <i>Frank Clark</i>		4/1/13	
x <i>Frank Clark</i>		4/1/13	8:45	x <i>Frank Clark</i>		4/1/13	8:45

5/22/2008 - Rev. 4.0

Submission of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.

OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

Temp at Receipt *ambient*



Chain of Custody

PROJECT DESCRIPTION: **Exide Landfill**

Message

Page 1 of 1

William Menucci

13040010

From: Charles Brungardt
Sent: Tuesday, April 02, 2013 9:30 AM
To: CustomerService
Subject: FW: ...change name from Exide Demo to Exide Landfill

-----Original Message-----

From: Brent Vollmar [mailto:bvollmar@wh-m.com]
Sent: Tuesday, April 02, 2013 9:29 AM
To: Charles Brungardt
Cc: Nick Foreman; Frank Clark
Subject: ...change name from Exide Demo to Exide Landfill

Charles-

The previous Exide landfill sample COC dropped off were labeled Exide Demo... I should have labeled them "Exide Landfill"... Could you make this change to the lab reports that you have not already emailed/sent out? Please let me know if you have any questions.

Thanks,

Brent

Brent Vollmar
W&M Environmental Group
972-509-9600 (office)
210-262-0607 (mobile)

4/2/2013



Thursday, April 04, 2013

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Exide Landfill
Project Number: 112.071
Project Location: Frisco, TX

Oxidor received 4 solid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
13040036-001	CP-16D	Solid	4/1/2013 13:51	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040036-002	CP-20A	Solid	4/1/2013 16:27	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040036-003	CP-13B	Solid	4/1/2013 08:30	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction
13040036-004	CS-B9-2'	Solid	4/1/2013 09:52	TCLP Cadmium, TCLP Lead, TCLP Metals Extraction

Respectfully submitted,

Charles Brungardt
President



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-16D**

Oxidor Sample ID: 13040036-001

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **4/1/2013 13:51**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/02/13 16:11	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/03/13 at 09:30</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/03/13 15:34	6020	K.O.	
TCLP Lead	0.05	0.050		0.710 mg/L	04/03/13 15:34	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-20A**

Oxidor Sample ID: 13040036-002

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **4/1/2013 16:27**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/02/13 16:11	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/03/13 at 09:30</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/03/13 15:53	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/03/13 15:53	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CP-13B**

Oxidor Sample ID: 13040036-003

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **4/1/2013 08:30**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/02/13 16:11	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/03/13 at 09:30</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/03/13 15:59	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/03/13 15:59	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Analytical Report

Project Name: **Exide Landfill**Customer Sample ID: **CS-B9-2'**

Oxidor Sample ID: 13040036-004

Matrix: **Solid**

Sample Received: 4/1/2013

Sample Collected: **4/1/2013 09:52**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					04/02/13 16:11	1311	H.B.	
Metals								
<i>Digested by method 3005A on 04/03/13 at 09:30</i>								
TCLP Cadmium	0.01	0.010		ND mg/L	04/03/13 16:05	6020	K.O.	
TCLP Lead	0.05	0.050		ND mg/L	04/03/13 16:05	6020	K.O.	



W&M Environmental Group, Inc.

Frank Clark

Sample Cross Reference

Project Name: **Exide Landfill**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
CP-16D	13040036-001	TCLP Lead	6020	META_19147_L
		TCLP Cadmium	6020	META_19147_L
CP-20A	13040036-002	TCLP Lead	6020	META_19147_L
		TCLP Cadmium	6020	META_19147_L
CP-13B	13040036-003	TCLP Lead	6020	META_19147_L
		TCLP Cadmium	6020	META_19147_L
CS-B9-2'	13040036-004	TCLP Lead	6020	META_19147_L
		TCLP Cadmium	6020	META_19147_L



W&M Environmental Group, Inc.

Frank Clark

QC Summary

Project Name: Exide Landfill

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_19147_L									
Blank	TCLP Cadmium	ND mg/L							
	TCLP Lead	ND mg/L							
LCS	TCLP Cadmium	0.098 mg/L		0.1 mg/L	98%	85-115%			
	TCLP Lead	0.099 mg/L		0.1 mg/L	99%	85-115%			
LCSD	TCLP Cadmium	0.097 mg/L		0.1 mg/L	97%	85-115%	0.8%	0-20%	
	TCLP Lead	0.098 mg/L		0.1 mg/L	98%	85-115%	1.0%	0-20%	
MS	TCLP Cadmium	0.459 mg/L	ND	0.5 mg/L	92%	80-120%			
	TCLP Lead	0.458 mg/L	ND	0.5 mg/L	92%	80-120%			
MSD	TCLP Cadmium	0.478 mg/L	ND	0.5 mg/L	96%	80-120%	4.1%	0-20%	
	TCLP Lead	0.472 mg/L	ND	0.5 mg/L	95%	80-120%	3.1%	0-20%	



W&M Environmental Group, Inc.

Frank Clark

Case Narrative

Project Name: **Exide Landfill**

ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section and / or Case Narrative

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of W&M Environmental Group, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of W&M Environmental Group, Inc. and OXIDOR Laboratories, LLC.

OXIDOR Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.



W&M Environmental Group, Inc.

Frank Clark

Sample Preservation Verification

Project Name: **Exide Landfill**Receipt temp: **Ambient**Receipt method: **Client**Custody seal intact: **Not Present**All samples / labels received intact: **Yes**Customer Sample ID: **CP-16D**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040036-001**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **04/01/13 13:51**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Not Specified		Temp	-

Customer Sample ID: **CP-20A**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040036-002**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **04/01/13 16:27**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Not Specified		Temp	-

Customer Sample ID: **CP-13B**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040036-003**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **04/01/13 08:30**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Not Specified		Temp	-

Customer Sample ID: **CS-B9-2'**Collected By: **Brent Vollmar**Oxidor Sample ID: **13040036-004**Collector Affiliation: **W&M Environmental Group, Inc.**Collected: **04/01/13 09:52**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
8 oz Glass Jar	1	Not Specified		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.



OXIDOR Laboratories, LLC



Order ID: 13040036

Date: 4/4/2013

Page 10 of 11

Chain of Custody

PROJECT DESCRIPTION: **Exide Landfill**



OXIDOR Laboratories, LLC
1825 East Plano Parkway, #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com



Chain of Custody Record

Page 1 of 1

Send Report To		Project / Report Information	
Company Name W&M		Circle Requested Turn Around Time (Less than 2 Days must be verified with lab) 7-10 Days 5-7 Days RUSH 3-4 Days 2 Days (ASAP)	
Address 906 E. 18th St.		State TX	Zip 75074
City		Project Name EXIDE LANDFILL	
Contact Name FRANK CLARK		Project Location Frisco, TX	
Contact Email frank@w-m.com		Project # 112.071 PO #	
Phone 972.424.6422		Sampler Name B. Volumose	
Fax		Sampler Company W&M	
Sampler Signature Frank Clark		Sampler Signature out of order	
Send Invoice To (Only if Different from above)		Matrix Codes	
Company Name		L - Liquid S - Solid	
Address		W - Wipes A - Air	
City		Presevation Codes	
State		1 - None 4 - HCl	
Zip		2 - HNO ₃ 5 - NaOH	
		3 - H ₂ SO ₄ 6 - Ice	
		7 - Other	
		Container Codes	
		P - Plastic G - Glass	
		O - Other	
Special Instructions *			
*Please confirm conditional requests prior to additional analysis			
Requested Analysis			

OXIDOR Order ID	Customer Sample ID	Sample Info		Matrix	# of Containers	Container Type	Pres. Code	(C)omp. (G)rab	Fails / Interval	Hold	Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
		Date	Time										
13040036													
	001	1 CP-16D	4/1/13 13:51										
	002	2 CP-20A	16:27										
	003	3 CP-13B	8:30										
	004	4 CP-CS-B9-2'	9:52										
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												

Relinquished by Frank Clark	Affiliation	Date 4/1/13	Time 19:08	Received by X	Affiliation	Date	Time
Relinquished by Frank Clark	Affiliation	Date	Time	Received by X	Affiliation	Date	Time
Relinquished by Frank Clark	Affiliation	Date	Time	Received by X	OXIDOR by Frank Clark	Date 4/1/13	Time 19:09

5/22/2008 - Rev. 4.0

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.

OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

Temp at Receipt **Amber ext.**



Chain of Custody

PROJECT DESCRIPTION: **Exide Landfill**

Ashley Bishop

13040036

From: Homer Youngblood
Sent: Tuesday, April 02, 2013 10:15 AM
To: CustomerService
Subject: FW: Sample Analysis - W&M

Homer Youngblood
Customer Service Manager
OXIDOR Laboratories, LLC
1825 E. Plano Parkway, Suite 160
Plano, TX 75074
972.424.6422

"When Quality Matters"

-----Original Message-----
From: Brent Vollmar [mailto:bvollmar@wh-m.com]
Sent: Tuesday, April 02, 2013 9:59 AM
To: Homer Youngblood
Subject: RE: Sample Analysis - W&M

Slap me next time you see me.... Same as all the previous chains... TCLP Metals Pb and Cd.

From: Homer Youngblood [mailto:hyoungblood@oxidor.com]
Sent: Tuesday, April 02, 2013 9:58 AM
To: Brent Vollmar
Subject: Sample Analysis - W&M

Brent,

On the 4 rush solids you dropped off last night, there was no requested analysis. What do you need them analyzed for?

Thank you



11-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121

Fax:

Re: Exide Landfill 112.071

Work Order: **1304350**

Dear Vanessa,

ALS Environmental received 31 samples on 29-Mar-2013 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 50.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Bernadette Fini".

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager



Certificate No: TX: T104704231-12-10

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#JUR X SHV D#FR US1#Sdu#i#nch#DOV#Juxs#Dq#DOV#Dp lmg#Frp sdq|

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 1304350

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1304350-01	CP-1B	Solid	13031047-02A	3/28/2013 15:00	3/29/2013 09:30	<input type="checkbox"/>
1304350-02	CP-1C	Solid	13031047-03A	3/28/2013 15:38	3/29/2013 09:30	<input type="checkbox"/>
1304350-03	CP-1D	Solid	13031047-04A	3/28/2013 16:05	3/29/2013 09:30	<input type="checkbox"/>
1304350-04	CP-2A	Solid	13031047-05A	3/28/2013 16:32	3/29/2013 09:30	<input type="checkbox"/>
1304350-05	CP-2B	Solid	13031047-06A	3/28/2013 16:52	3/29/2013 09:30	<input type="checkbox"/>
1304350-06	CP-2D	Soil	13031112-01A	3/29/2013 07:40	3/29/2013 09:30	<input type="checkbox"/>
1304350-07	CP-2C	Soil	13031112-02A	3/29/2013 07:50	3/29/2013 09:30	<input type="checkbox"/>
1304350-08	CP-3A	Soil	13031112-03A	3/29/2013 07:57	3/29/2013 09:30	<input type="checkbox"/>
1304350-09	CP-3B	Soil	13031112-04A	3/29/2013 08:18	3/29/2013 09:30	<input type="checkbox"/>
1304350-10	CP-3C	Soil	13031112-05A	3/29/2013 08:35	3/29/2013 09:30	<input type="checkbox"/>
1304350-11	CP-3D	Soil	13031112-06A	3/29/2013 08:39	3/29/2013 09:30	<input type="checkbox"/>
1304350-12	CP-4A	Soil	13031112-07A	3/29/2013 08:59	3/29/2013 09:30	<input type="checkbox"/>
1304350-13	CP-4B	Soil	13031112-08A	3/29/2013 09:18	3/29/2013 09:30	<input type="checkbox"/>
1304350-14	CP-4C	Soil	13031112-09A	3/29/2013 09:43	3/29/2013 09:30	<input type="checkbox"/>
1304350-15	CP-4D	Soil	13031112-10A	3/29/2013 09:45	3/29/2013 09:30	<input type="checkbox"/>
1304350-16	CP-5A	Soil	13031112-11A	3/29/2013 10:00	3/29/2013 09:30	<input type="checkbox"/>
1304350-17	CP-5B	Soil	13031112-12A	3/29/2013 10:20	3/29/2013 09:30	<input type="checkbox"/>
1304350-18	CP-5C	Soil	13031112-13A	3/29/2013 10:34	3/29/2013 09:30	<input type="checkbox"/>
1304350-19	CP-5D	Soil	13031112-14a	3/29/2013 10:36	3/29/2013 09:30	<input type="checkbox"/>
1304350-20	CP-6A	Soil	13031112-15A	3/29/2013 11:00	3/29/2013 09:30	<input type="checkbox"/>
1304350-21	CP-6B	Soil	13031112-16A	3/29/2013 11:15	3/29/2013 09:30	<input type="checkbox"/>
1304350-22	CP-6C	Solid	1304011-01A	3/30/2013 08:45	3/29/2013 09:30	<input type="checkbox"/>
1304350-23	CP-7A	Solid	1304011-03A	3/30/2013 09:00	3/29/2013 09:30	<input type="checkbox"/>
1304350-24	CP-8D	Solid	1304011-10A	3/30/2013 10:26	3/29/2013 09:30	<input type="checkbox"/>
1304350-25	CP-9A	Solid	1304011-11A	3/30/2013 10:47	3/29/2013 09:30	<input type="checkbox"/>
1304350-26	CP-9B	Solid	1304011-12A	3/30/2013 11:07	3/29/2013 09:30	<input type="checkbox"/>
1304350-27	CP-9C	Solid	1304011-13A	3/30/2013 11:19	3/29/2013 09:30	<input type="checkbox"/>
1304350-28	CP-9D	Solid	1304011-14A	3/30/2013 11:21	3/29/2013 09:30	<input type="checkbox"/>
1304350-29	CP-10A	Solid	1304011-15A	3/30/2013 11:34	3/29/2013 09:30	<input type="checkbox"/>
1304350-30	CP-10B	Solid	1304011-16A	3/30/2013 13:13	3/29/2013 09:30	<input type="checkbox"/>
1304350-31	CP-10C	Solid	1304011-17a	3/30/2013 13:29	3/29/2013 09:30	<input type="checkbox"/>

Client: Exide Technologies
Project: Exide Landfill 112.071
Work Order: 1304350

Case Narrative

Per client request on April 9, 2013, various samples were re-logged for re-analysis of TCLP lead and Cadmium analysis originally logged in under work order number's 13031047, 13031112 and 1304011.

Sampled ID's had limited sample "CP-6A" 20 grams used for TCLP and sample "CP-1B" 15 grams used for TCLP.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-1B
Collection Date: 3/28/2013 03:00 PM

Work Order: 1304350
Lab ID: 1304350-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:03
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-1C
Collection Date: 3/28/2013 03:38 PM

Work Order: 1304350
Lab ID: 1304350-02
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:06
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-1D
Collection Date: 3/28/2013 04:05 PM

Work Order: 1304350
Lab ID: 1304350-03
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:08
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2A
Collection Date: 3/28/2013 04:32 PM

Work Order: 1304350
Lab ID: 1304350-04
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:10
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2B
Collection Date: 3/28/2013 04:52 PM

Work Order: 1304350
Lab ID: 1304350-05
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:13
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2D
Collection Date: 3/29/2013 07:40 AM

Work Order: 1304350
Lab ID: 1304350-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:15
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-2C
Collection Date: 3/29/2013 07:50 AM

Work Order: 1304350
Lab ID: 1304350-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:22
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3A
Collection Date: 3/29/2013 07:57 AM

Work Order: 1304350
Lab ID: 1304350-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:25
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3B
Collection Date: 3/29/2013 08:18 AM

Work Order: 1304350
Lab ID: 1304350-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:39
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3C
Collection Date: 3/29/2013 08:35 AM

Work Order: 1304350
Lab ID: 1304350-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:41
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-3D
Collection Date: 3/29/2013 08:39 AM

Work Order: 1304350
Lab ID: 1304350-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:43
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4A
Collection Date: 3/29/2013 08:59 AM

Work Order: 1304350
Lab ID: 1304350-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:51
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4B
Collection Date: 3/29/2013 09:18 AM

Work Order: 1304350
Lab ID: 1304350-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:53
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4C
Collection Date: 3/29/2013 09:43 AM

Work Order: 1304350
Lab ID: 1304350-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:55
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-4D
Collection Date: 3/29/2013 09:45 AM

Work Order: 1304350
Lab ID: 1304350-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 19:58
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 19:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5A
Collection Date: 3/29/2013 10:00 AM

Work Order: 1304350
Lab ID: 1304350-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:10
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5B
Collection Date: 3/29/2013 10:20 AM

Work Order: 1304350
Lab ID: 1304350-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:12
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5C
Collection Date: 3/29/2013 10:34 AM

Work Order: 1304350
Lab ID: 1304350-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:19
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-5D
Collection Date: 3/29/2013 10:36 AM

Work Order: 1304350
Lab ID: 1304350-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:22
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6A
Collection Date: 3/29/2013 11:00 AM

Work Order: 1304350
Lab ID: 1304350-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	1.38		0.00800	0.0200	mg/L	10	4/10/2013 20:36
Lead	44.2		0.0700	0.500	mg/L	100	4/11/2013 14:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6B
Collection Date: 3/29/2013 11:15 AM

Work Order: 1304350
Lab ID: 1304350-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:39
Lead	0.0239	J	0.00700	0.0500	mg/L	10	4/10/2013 20:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-6C
Collection Date: 3/30/2013 08:45 AM

Work Order: 1304350
Lab ID: 1304350-22
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:41
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-7A
Collection Date: 3/30/2013 09:00 AM

Work Order: 1304350
Lab ID: 1304350-23
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:48
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-8D
Collection Date: 3/30/2013 10:26 AM

Work Order: 1304350
Lab ID: 1304350-24
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:51
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9A
Collection Date: 3/30/2013 10:47 AM

Work Order: 1304350
Lab ID: 1304350-25
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:53
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9B
Collection Date: 3/30/2013 11:07 AM

Work Order: 1304350
Lab ID: 1304350-26
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:55
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9C
Collection Date: 3/30/2013 11:19 AM

Work Order: 1304350
Lab ID: 1304350-27
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 20:58
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 20:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-9D
Collection Date: 3/30/2013 11:21 AM

Work Order: 1304350
Lab ID: 1304350-28
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 21:00
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 21:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10A
Collection Date: 3/30/2013 11:34 AM

Work Order: 1304350
Lab ID: 1304350-29
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 21:02
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 21:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10B
Collection Date: 3/30/2013 01:13 PM

Work Order: 1304350
Lab ID: 1304350-30
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 21:05
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 21:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental**Date:** 11-Apr-13

Client: Exide Technologies
Project: Exide Landfill 112.071
Sample ID: CP-10C
Collection Date: 3/30/2013 01:29 PM

Work Order: 1304350
Lab ID: 1304350-31
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS				Method: SW1311/6020	Leachate: SW1311 / 4/10/13	Analyst: SKS	
Cadmium	U		0.00800	0.0200	mg/L	10	4/10/2013 21:07
Lead	U		0.00700	0.0500	mg/L	10	4/10/2013 21:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies

Work Order: 1304350

Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: 69091		Instrument ID ICPMS05		Method: SW1311/6020							
MBLK		Sample ID: MBLKT1-040913-69091				Units: mg/L		Analysis Date: 4/10/2013 06:54 PM			
Client ID:		Run ID: ICPMS05_130410A			SeqNo: 3173738		Prep Date: 4/10/2013		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	U	0.020	0	0	0	0-0		0			
Lead	U	0.050	0	0	0	0-0		0			
MBLK		Sample ID: MBLKW3-041013-69091				Units: mg/L		Analysis Date: 4/10/2013 06:56 PM			
Client ID:		Run ID: ICPMS05_130410A			SeqNo: 3173739		Prep Date: 4/10/2013		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	U	0.020									
Lead	U	0.050									
LCS		Sample ID: MLCSW3-041013-69091				Units: mg/L		Analysis Date: 4/10/2013 06:58 PM			
Client ID:		Run ID: ICPMS05_130410A			SeqNo: 3173740		Prep Date: 4/10/2013		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	0.4777	0.020	0.5	0	95.5	80-120		0			
Lead	0.4882	0.050	0.5	0	97.6	80-120		0			
MS		Sample ID: 1304350-08AMS				Units: mg/L		Analysis Date: 4/10/2013 07:29 PM			
Client ID: CP-3A		Run ID: ICPMS05_130410A			SeqNo: 3173753		Prep Date: 4/10/2013		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	0.4927	0.020	0.5	0.000586	98.4	75-125		0			
Lead	0.4978	0.050	0.5	0.000586	99.4	75-125		0			
MSD		Sample ID: 1304350-08AMSD				Units: mg/L		Analysis Date: 4/10/2013 07:32 PM			
Client ID: CP-3A		Run ID: ICPMS05_130410A			SeqNo: 3173754		Prep Date: 4/10/2013		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	0.4956	0.020	0.5	0.000586	99	75-125	0.4927	0.594	20		
Lead	0.4963	0.050	0.5	0.000586	99.1	75-125	0.4978	0.299	20		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 4

Client: Exide Technologies
Work Order: 1304350
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **69091** Instrument ID **ICPMS05** Method: **SW1311/6020**

DUP	Sample ID: 1304350-08ADUP			Units: mg/L			Analysis Date: 4/10/2013 07:27 PM			
Client ID:	CP-3A	Run ID: ICPMS05_130410A			SeqNo: 3173752		Prep Date: 4/10/2013		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0	0.000586	0	25	
Lead	U	0.050	0	0	0	0-0	0.000586	0	25	

The following samples were analyzed in this batch:

1304350-01A	1304350-02A	1304350-03A
1304350-04A	1304350-05A	1304350-06A
1304350-07A	1304350-08A	1304350-09A
1304350-10A	1304350-11A	1304350-12A
1304350-13A	1304350-14A	1304350-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 2 of 4

Client: Exide Technologies
Work Order: 1304350
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **69093** Instrument ID **ICPMS05** Method: **SW1311/6020**

MBLK	Sample ID: MBLKT1-040913-69093				Units: mg/L		Analysis Date: 4/10/2013 08:02 PM				
Client ID:	Run ID: ICPMS05_130410A				SeqNo: 3173767		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

MBLK	Sample ID: MBLKW5-041013-69093				Units: mg/L		Analysis Date: 4/10/2013 08:05 PM				
Client ID:	Run ID: ICPMS05_130410A				SeqNo: 3173768		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020								
Lead		U	0.050								

LCS	Sample ID: MLCSW5-041013-69093				Units: mg/L		Analysis Date: 4/10/2013 08:07 PM				
Client ID:	Run ID: ICPMS05_130410A				SeqNo: 3173769		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4739	0.020	0.5	0	94.8	80-120		0		
Lead		0.4933	0.050	0.5	0	98.7	80-120		0		

MS	Sample ID: 1304350-19AMS				Units: mg/L		Analysis Date: 4/10/2013 08:27 PM				
Client ID: CP-5D	Run ID: ICPMS05_130410A				SeqNo: 3173777		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.488	0.020	0.5	0.000288	97.5	75-125		0		
Lead		0.4914	0.050	0.5	0.000531	98.2	75-125		0		

MSD	Sample ID: 1304350-19AMSD				Units: mg/L		Analysis Date: 4/10/2013 08:29 PM				
Client ID: CP-5D	Run ID: ICPMS05_130410A				SeqNo: 3173778		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		0.4699	0.020	0.5	0.000288	93.9	75-125	0.488	3.78	20	
Lead		0.4841	0.050	0.5	0.000531	96.7	75-125	0.4914	1.49	20	

DUP	Sample ID: 1304350-19ADUP				Units: mg/L		Analysis Date: 4/10/2013 08:24 PM				
Client ID: CP-5D	Run ID: ICPMS05_130410A				SeqNo: 3173776		Prep Date: 4/10/2013		DF: 10		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		U	0.020	0	0	0	0-0	0.000288	0	25	
Lead		U	0.050	0	0	0	0-0	0.000531	0	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 3 of 4

Client: Exide Technologies
Work Order: 1304350
Project: Exide Landfill 112.071

QC BATCH REPORT

Batch ID: **69093**

Instrument ID **ICPMS05**

Method: **SW1311/6020**

The following samples were analyzed in this batch:

1304350-16A	1304350-17A	1304350-18A
1304350-19A	1304350-20A	1304350-21A
1304350-22A	1304350-23A	1304350-24A
1304350-25A	1304350-26A	1304350-27A
1304350-28A	1304350-29A	1304350-30A
1304350-31A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 4 of 4

Client: Exide Technologies
Project: Exide Landfill 112.071
WorkOrder: 1304350

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 29-Mar-13 09:30

Work Order: 13031047

Received by: JBA

Checklist completed by Paresh M. Giga
eSignature

29-Mar-13

Reviewed by: Bernadette A. Fine

29-Mar-13

eSignature

Date

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Temperature(s)/Thermometer(s):

21.6c c/U IR1

Cooler(s)/Kit(s):

5140

Date/Time sample(s) sent to storage:

3/29/13 11:05

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 30-Mar-13 09:15

Work Order: 13031112

Received by: RDH

Checklist completed by Robert D. Harris

eSignature

30-Mar-13

Date

Reviewed by: Bernadette A. Fine

eSignature

30-Mar-13

Date

Matrices: soils

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

21.7c c/u 005

Cooler(s)/Kit(s):

4778

Date/Time sample(s) sent to storage:

3/30/13 10:40

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Sample Receipt Checklist

Client Name: EXIDE TECHNOLOGIES

Date/Time Received: 01-Apr-13 08:42

Work Order: 1304011

Received by: JBA

Checklist completed by Johnnie B. Allen
eSignature

01-Apr-13

Reviewed by: Bernadette A. Fine
eSignature

02-Apr-13

Date

Matrices: solid

Carrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>18.7 C, 19.7 C, 18.6 C, 18.5 C/uc</u> <u>IR 1</u>		
Cooler(s)/Kit(s):	<u>4782/2876/4868/2980</u>		
Date/Time sample(s) sent to storage:	<u>4/1/13 11:55</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

<u> </u>

CorrectiveAction:

<u> </u>



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Everett, WA
+1 425 356 2600

Chain of Custody

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Holland, MI
+1 616 399 6070

Project: Exide demo 112.071

Page 1 of 1

EXIDE TECHNOLOGIES: Exide Technologies
COC ID: 789

ALS Project Manager

Customer Information		Project Information															
Purchase Order	Work Order	Project Name	Exide Demo														
	112.071	Project Number	112.071														
Company Name	Exide Technologies	Bill To Company	Exide Technologies														
Send Report To	Vanessa Coleman	Invoice Attn	Vanessa Coleman														
Address	7471 South Fifth Street	Address	7471 South Fifth Street														
City/State/Zip	Frisco, TX 75034	City/State/Zip	Frisco, TX 75034														
Phone	(972) 335-2121	Phone	(972) 335-2121														
Fax		Fax															
e-Mail Address	<i>f.clark@wh-m.com</i>	e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CP-1A	3/28/13	1457	SS	none	1	X										
2	CP-1B	3/28/13	1500	SS													
3	CP-1C	3/28/13	1538	SS													
4	CP-1D	3/28/13	1605	SS													
5	CP-2A	3/28/13	1632	SS													
6	CP-2B	3/28/13	1652	SS													
7	CP-Dup-2	3/28/13	—	SS													
8																	
9																	
10																	
Sampler(s) Please Print & Sign		<i>BRENT WILSON</i>		Shipment Method	<i>Hand Carried</i>		Required Turnaround Time: (Check Box)										
Relinquished by:		<i>Brent Wilson</i>		Date:	3/28/13	Time:	<i>14:00</i>	Received By:	<i>Brent Wilson</i>		Other:	Std 10 WK Days	Std 5 WK Days	2 WK Days	24 Hour	Results Due Date:	
Relinquished by:		<i>Brent Wilson</i>		Date:	3/28/13	Time:	<i>14:00</i>	Received By:	<i>Brent Wilson</i>		Other:	Std 10 WK Days	Std 5 WK Days	2 WK Days	24 Hour	Results Due Date:	
Logged by (Laboratory):		<i>Brent Wilson</i>		Date:	3/28/13	Time:	<i>14:00</i>	Checked by (Laboratory):	<i>Brent Wilson</i>		Other:	Std 10 WK Days	Std 5 WK Days	2 WK Days	24 Hour	Results Due Date:	
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₃	7-Other	8-4°C	9-5035	Other:	QC Package: Check One Box Below	Results Due Date:				
											Level II Std QC	Level III Std QC/Raw Data	Level IV Std QC/CLP	Other EDD			
											Level II Std QC	Level III Std QC/Raw Data	Level IV Std QC/CLP	Other EDD			
											Level II Std QC	Level III Std QC/Raw Data	Level IV Std QC/CLP	Other EDD			
											Level II Std QC	Level III Std QC/Raw Data	Level IV Std QC/CLP	Other EDD			

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note : SS = *partial*

eston, WV
3168

5280

FedEx
Tracking
Number

8013 8013 0617

MUR1

From 3/20/13

Sender's Name BRENT HARNESS Phone (972) 516-0303

Company W&M Environmental

Address 906 E. 12th St.

Dept/Floor/Suite/Room

City PLANO State TX ZIP 75074

2 Your Internal Billing Reference

To Recipient's Name CLIENT SERVICES Phone 281 530-5656

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day select locations

Form ID No. 0215

4 Express Package Service

To most locations.
NOTE: Services order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the
FedEx Express Freight U.S. Airbill.

Next Business Day

FedEx First Overnight
FedEx location address. Monday through Friday, delivery will be effected on
Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
FedEx location address. Friday Express will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
FedEx location address. Saturday delivery NOT available.

2 or 3 Business Days

FedEx 2Day A.M.
Second business morning. Sunday delivery NOT available.

FedEx 2Day
Second business afternoon. Thursday shipments
will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver
FedEx location address. Saturday delivery NOT available.

5 Packaging

* Declared value limit \$250

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required

Package may be left where:

Recipient's address
Second recipient's address
may sign for delivery. Fee applies.

Direct Signature

Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. Fee applies.
residential addresses only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

No Yes As per attached
Shipper's Declaration Shipper's Declaration
not required. Dry Ice Dried S. UN 1445 _____ kg
Dangerous goods (including dry ice) cannot be shipped FedEx packaging
or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment/Billing

Enter FedEx Acct. No. or Credit Card No. below. Credit Acct. Accts. No.

Sender Recipient Third Party Credit Card Cash/Check

Next Bus. Section Recipient Third Party Credit Card Cash/Check

Will be Sent Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight Credit Card Auth.

31.95 lbs

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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8013 8013 0617



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EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide demo 112.071

Chain of Custody Form

COC ID: 78919

Page 1 of 2

Customer Information

Customer Information		Project Information										ALS Project Manager:															
Purchase Order		Project Name	EXIDE DEMO		A	TCLP Metals (SW-846) Pb & Cd																					
Work Order		Project Number	112.071		B																						
Company Name	Exide Technologies	Bill To Company			C																						
Send Report To	Vanessa Coleman	Invoice Attn			D																						
Address	7471 South Fifth Street	Address	7471 South Fifth Street		E																						
City/State/Zip	Frisco, TX 75034	City/State/Zip	Frisco, TX 75034		F																						
Phone	(972) 355-2121	Phone	(972) 355-2121		G																						
Fax		Fax			H																						
e-Mail Address	blank@whom.com	e-Mail Address	blank@whom.com		I																						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Hold				
1	CP-2D	3/29/13	7:40	SS	None	1	X																				
2	CP-2E		7:50																								
3	CP-3A		7:57																								
4	CP-3B		8:18																								
5	CP-3C		8:35																								
6	CP-3D		8:39																								
7	CP-4A		8:59																								
8	CP-4B		9:18																								
9	CP-4C		9:43																								
10	CP-4D		9:45																								
Samples(s) Please Print & Sign		Shipment Method		Required Turnaround Time: Check Box																						Results Due Date:	
BRENT VORIS		FedEx		Std 10 Wk Days		5 Wk Days		One Month		2 Wk Days		24 Hour															
Retrieved by: <u>Brent Voris</u>		Date: 3/29/13 Time: 17:20		Received by: Laboratory: <u>PL</u>		Time: 3/30/13 09:15		Notes: 48 Hr TAT																			
Relinquished by: <u>Brent Voris</u>		Date: 3/29/13 Time: 17:20		Received by: Laboratory: <u>PL</u>		Time: 3/30/13 09:15		QC Package: (Check One Box Below)		Door ID:		Cooler Temp:		QC Package: (Check One Box Below)													
Logged by Laboratory:		Date:		Time:		Checked by Laboratory: <u>PL</u>				Level II Std QC		Level III Std QC/Raw Data		Level IV SW-846 CLP													
Preservative Key:		1-HCl		2-HNO ₃		3-H ₂ SO ₄		4-NaOH		5-Na ₂ SO ₄		6-NaHSO ₄		7-Other		8-4°C		9-5035		Other / EOD							

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EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide demo 112.071

Page 2 of 2

COC ID: 78912

Customer Information	
Purchase Order	Project Name
Work Order	Project Number
Company Name	Bill To Company
Send Report To	Invoice Attn
Address	Address
City/State/Zip	City/State/Zip
Phone	Phone
Fax	Fax
e-Mail Address	e-Mail Address

Project Information		Shipment Method												Required Turnaround Time: Check Box		Results Due Date:							
No.	Sample Description	Date	Time	Matrix	Press	# Bottles	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Hold
1	CP-5A	3/29/13	10:00	SS	None	1																	
2	CP-5B	3/29/13	10:20																				
3	CP-5C		10:34																				
4	CP-5D		10:36																				
5	CP-6A		11:00																				
6	CP-6B		11:15																				
7	Drop - 4																						
8	Drop - 5																						
9																							
10																							
Samples(s) Please Print & Sign:																							
<i>Becht Younger</i>		<i>Pat Hall</i>																					
Received by:		Time:		Shipment Method		Required Turnaround Time: Check Box		Other		Notes:		Results Due Date:											
<i>Becht Younger</i>		Date: 3/27/13		Time: 1700		Received by: <i>Pat Hall</i>		Time: 3/27/13		Notes: 48 Hr TAT		Results Due Date:											
Rerun by:		Time:		Date:		Received by: <i>Pat Hall</i>		Time: 3/27/13		Notes: 48 Hr TAT		Results Due Date:											
Rerun by (Laboratory):		Time:		Date:		Received by: <i>Pat Hall</i>		Time: 3/27/13		Notes: 48 Hr TAT		Results Due Date:											
Preservative Key:		1-HCl		3-HNO ₃		4-NaOH		5-Na ₂ SO ₄		6-NaHSO ₄		7-Other		8-4°C		9-50°C		10-EDD		11-SW846/CLP		12-TRFP Level IV	

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00768
01000

FedEx. Package
Express US Airbill

1 From [REDACTED]
Date [REDACTED]
Sender's Name BRENT VOLLMER Phone 972 516-0300
Company WAMI ENVIRONMENTAL

Address 906 E 18TH ST. Dept/Room/Box/Room

City PLANO State TX ZIP 75074

2 Your Internal Billing Reference

3 To:
Recipient's Name CLIENT SERVICES Phone 281 530-5656
Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210 Dept/Room/Box/Room

We cannot deliver to P.O. boxes or F.O. ZIP codes.

Address CM HOUSTON State TX ZIP 77099-4338 HOLD Weekday
Up to 1000 miles from address
 REQUIRED NOT available for FedEx First Overnight

HOLD Saturday
Up to 1000 miles from address
 REQUIRED Available ONLY for FedEx Priority Overnight and FedEx急便 (急便)

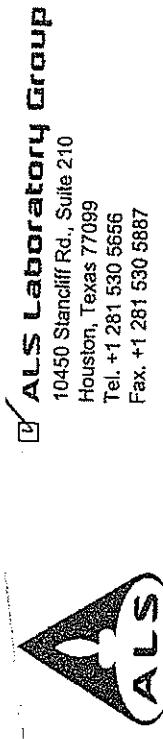
0455550776

8013 8013 0628



8013 8013 0628

fedex.com 1800.463.3339



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Fax. +1 281 530 5887

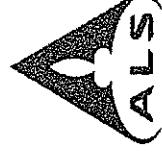
EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide demo 112.071

Page 1 of 3

Customer Information		ALS Project Manager:															
Purchase Order	Project Name	Project Information															
Work Order	Project Number	EXIDE Demo															
Company Name	Bill To Company	EXIDE TECHNOLOGIES															
Send Report To	Invoice Attn																
Address	Address																
City/State/Zip	City/State/Zip	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
Phone	(912) 335-2121																
Fax																	
e-Mail Address	chandresh@als-m.com	e-Mail Address	chandresh@als-m.com										J				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CP-CC	3/30/03	8:45	SS	None	1	X										
2	CP-CD		8:47														
3	CP-TA		9:00														
4	CP-TB		9:18														
5	CP-TC		9:40														
6	CP-TD		9:42														
7	CP-3A NOT THIS ONE		9:53														
8	CP-8B		10:10														
9	CP-8C		10:24														
10	CP-8D		10:26														
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Other		Results Due Date:									
Benji Chandresh Chaudhary		Ground		<input type="checkbox"/> STD 10 Wk Days		<input type="checkbox"/> 2 Wk Days		<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 24 Hour							
Submitted by: Benji Chandresh Chaudhary		Date: 3/30/03	Time: 19:00	Received by: Chandresh Chaudhary	Notes: 48 Hr TAT												
Terminated by: Benji Chandresh Chaudhary		Date: 3/30/03	Time: 19:00	Received by (Laboratory): Chandresh Chaudhary	Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)										
Agreed by (Laboratory):		Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist									
Reserve Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other		8-4°C	9-5035				<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV									
							<input type="checkbox"/> Other										

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EXIDE TECHNOLOGIES: Exide Technologies

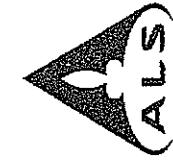
Project: Exide demo 112.071

Page 2 of 3

Customer Information		Project Information										ALS Project Manager:					
Purchase Order		Project Name	EXIDE DEMO									A	TCLP Metal (SW-846) Pb & Cd				
Work Order		Project Number	112.071									B					
Company Name	Exide Technologies	Bill To Company										C					
Send Report To	Vanessa Tolentino	Invoice Attn										D					
Address	7471 S. 5th St.	Address										E					
City/State/Zip	Haines TX 75034	City/State/Zip										F					
Phone	(912) 335-2121	Phone										G					
Fax		Fax										H					
E-Mail Address	elizabeth@tolentino.com	e-Mail Address										I					
No.	Sample Description	Date	Time	Matrix	# Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold:
1	CP - 9A	3/30/13	10:45	55	none	1	X										
2	CP - 9B		10:50	70	none												
3	CP - 9C		11:14														
4	CP - 9D		11:21														
5	CP - 10A		11:34														
6	CP - 10B		13:13														
7	CP - 10C		13:29														
8	CP - 10D		13:30														
9	CP - 11A		13:50														
10	CP - 11B		14:14														
Sampler(s) Please Print & Sign:		Suzanne Tolentino		Shipment Method	FED EX		Required Turnaround Time: (Check Box)		Other		Results Due Date:						
Relinquished by:		Suzanne Tolentino		Date: 3/30/13	Time: 19:00	Received by:	4/1/13 08:27	Notes: 48 hr TAT	5 Wk Days		24 Hour						
Relinquished by:		Suzanne Tolentino		Date: 3/30/13	Time: 19:00	Received by (Laboratory):		AC Package: (Check One Box Below)									
Logged by (Laboratory):				Date:	Time:	Checked by (Laboratory):		Cooler ID		Cooler Temp							
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035	10-	11-	12-	13-			

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EXIDE TECHNOLOGIES: Exide Technologies

Project: Exide demo 112.071
Page 2 of 2

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	Project Name	EXIDE DEMO		A	TCLP Metals (Gu-84) PB & Cd
Work Order	Project Number	112.071		B	
Company Name	Bill To Company			C	
Send Report To	Invoice Attn			D	
Address	7471 S. 5th St.	Address		E	
City/State/Zip	Juraco, TX 75034	City/State/Zip		F	
Phone	(912) 335-2121	Phone		G	
Fax		Fax		H	
e-Mail Address	lark@exide.com	e-Mail Address		I	
No.	Sample Description	Date	Time	J	
1	CP-11C	3/30/03	14:58	Matrix	
2	CP-11D		14:59	# Bottles	
3	CP-12A		15:30	A	
4	CP-12B		15:48	B	
5	CP-12C		16:06	C	
6	CP-12D		16:08	D	
7	Prop-10			E	
8				F	
9				G	
10				H	
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)	
<u>Beent Kurniat Bent Voll</u>		Truck		<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> Other _____
Relinquished by:	Date: 3/30/03	Time: 12:02	Received by: <u>J. C. L.</u>	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 24 Wk Days
Relinquished by:	Date: 3/30/03	Time: 12:02	Received by (Laboratory): <u>J. C. L.</u>	<input type="checkbox"/> Notes: 82 hr TAT.	<input type="checkbox"/> QC Package: (Check One Box Below)
Logged by (Laboratory):	Date: 3/30/03	Time: 12:02	Checked by (Laboratory):	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TARP Checklist!
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TARP Level IV
			4-NaOH	<input type="checkbox"/> Level IV SW846/CLP	<input type="checkbox"/> Other _____
			5-Na ₂ S ₂ O ₃	<input type="checkbox"/> Other _____	
			6-NaHSO ₄	<input type="checkbox"/> Other _____	
			7-Other	<input type="checkbox"/> Other _____	
			8-4°C	<input type="checkbox"/> Other _____	
			9-5035	<input type="checkbox"/> Other _____	

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Attachment 2



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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

4/23/2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Dear Vanessa,

RE: TCLP METALS ANALYSES

This letter is intended to explain the differences between the initial and subsequent results reported by ALS for your TCLP lead and cadmium samples. The initial TCLP extractions and analyses yielded positive detections above the reporting limits while the second TCLP re-extractions and analyses yielded "ND", not detected, at the reporting limits.

The TCLP procedure states particle size reduction is required for a solid waste that cannot pass through a 9.5 mm standard sieve, however there is no specific recommendation other than crushing, cutting, or grinding the waste to a particle size that will meet the above mentioned criteria. After consultation with both the extraction group and analytical group, we have determined the only difference between our two procedures was a less vigorous particle size reduction of the sample matrix on the second TCLP extraction. The initial particle size reduction was done in a manner to reduce the material to a granular material much smaller than the 9.5 mm standard sieve size. The second particle size reduction was much less vigorous, producing a solid waste material that was closer to the 9.5 mm sieve.

The difference in the particle size also caused a difference in the pH of the TCLP extraction fluid after tumbling. The smaller particle size generally yielded a pH seven of the TCLP extraction fluid after tumbling, while the larger particle size generally yielded a pH nine of the TCLP extraction fluid after tumbling.

It is our belief the difference in particle size reduction, combined with the effects on the pH of the TCLP extraction fluid caused the variability in the results reported. Therefore, ALS requests the client to provide a representative sample with a uniform particle size able to pass through the



9.5mm standard sieve. If the client is unable to provide the laboratory with such a sample, the laboratory will take a representative aliquot from the sample provided and minimally reduce any particle sizes to the extent they are able to pass through the sieve to comply with the regulatory requirements set forth in the TCLP guidance document.

The representative sample aliquot will be determined by a weighted composite of the percentage of sample able to pass through the sieve and the percentage not passing through the sieve. For example, the initial weight of the entire sample will be determined. Next, the entire sample will be sieved with the 9.5mm standard sieve. The weight will be recorded for the portion passing through and the portion not passing through the sieve. The percentage of each portion will be determined in relation to the entire sample weight. The laboratory will then weigh out 100 grams for the TCLP extraction based on the weighted composite of each portion. This approach should reduce the subjectivity and variability of determining a representative sample aliquot with varying particles sizes.

Sincerely,

Chris Schepcoff

Laboratory Director